

80520

184793

ME

STIC-Biotech/ChemLib

From: Bowman, Amy
Sent: Tuesday, April 11, 2006 6:04 AM
To: STIC-Biotech/ChemLib
Cc: Bowman, Amy
Subject: sequence search-10/728,399

Hello,
I need a score over length search of SEQ ID NO: 1 in application 10/728,399, with lower and upper limits of 8 and 30 nucleobases, respectively, and a minimum of 80% identity.

Thank you,
Amy Bowman
AU 1635
REM 2C31
mail REM 2C18
571-272-0755

Na 20

RECEIVED
APR 11 2006
STIC

Deirdre Amour

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

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10/728,399

STD 1

4/24/06

SCORE OVER LENGTH SEARCHES

Attached is a score over length search. This search was developed to overcome limitations in most standard search systems which favor large sequences with high scoring, but lesser overall identity over smaller sequences with higher overall identity. This search is especially useful for relatively small nucleic acid or polypeptide target sequences (antisense, fragments, probes, primers, RNAi, epitopes, haptens, etc.) claimed functionally via a form of hybridization and/or identity language and having defined upper and lower polynucleotide and or polypeptide length limits.

The score over length search is performed by first running the query sequence using examiner-specified identity and polynucleotide or protein length limit parameters, and saving 65,000 hits and 0 alignments from each desired database. The resulting output is reformatted using a Microsoft Word macro and is imported into Excel. The summary table data are then sorted by the ratio of score of each hit sequence divided by its length and the accession numbers for all hits below the examiner's desired score over length parameters are deleted. The remaining accession numbers are used to pull the corresponding sequences from the databases into subdatabases enriched for good hits and the query sequence is re-run against these subdatabases to yield the final results.

The score over length cutoff for this search is 80%

Examiner Please Note: This cover sheet should be included when submitting results to be scanned.

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 23, 2006, 11:43:23 ; Search time 0.001 Seconds

(without alignments)
47.800 Million cell updates/sec

Title: US-10-728-399-1

Perfect score: 20

Sequence: 1 ttgtctccagctcttcgtt 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 106 seqs, 1195 residues

Total number of hits satisfying chosen parameters: 212

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 500 summaries

Database : rng.subdb.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	DB ID	Description
1	20	100.0	20	1	ADP69107
2	19	95.0	20	1	ADP69109
3	19	95.0	20	1	ADP69110
4	18	90.0	20	1	ADP69108
5	18	90.0	20	1	ADP69116
6	17	85.0	20	1	ADP69124
7	17	85.0	20	1	ADP69113
8	16	80.0	20	1	ADP69111
9	16	80.0	20	1	ADP69130
10	13.8	69.0	17	1	ABN09352
11	13.8	69.0	17	1	ABN09353
12	13.8	69.0	17	1	ABN09354
13	13.8	69.0	17	1	ACN72443
14	13.8	69.0	17	1	ACN72442
15	13.8	69.0	17	1	ACN72444
16	10.4	52.0	13	1	ABF03676
17	10.4	52.0	13	1	ABF03677
18	9.4	47.0	11	1	ABV64201
19	9.4	47.0	11	1	ABV71622
20	9.4	47.0	11	1	ADQ32489
21	9.4	47.0	11	1	ADQ32655
22	9	45.0	10	1	AAZ81653
23	9	45.0	10	1	AAZ81653
24	9	45.0	10	1	ADU19570
25	9	45.0	11	1	ABQ87397
26	9	45.0	11	1	ABV70379
27	9	45.0	11	1	ABV62958
28	9	45.0	11	1	ABV69205
29	9	45.0	11	1	ABV65235
30	9	45.0	11	1	ABV65400
31	9	45.0	11	1	ADG64354
32	8.6	43.0	9	1	ADR36038
33	8.6	43.0	9	1	ADR36039

C 34	8.6	43.0	9	1	ADR36041	Human nicking agen
C 35	8.6	43.0	9	1	ADR36040	Human nicking agen
C 36	8.4	42.0	10	1	AAV05484	BemAI restriction
C 37	8.4	42.0	10	1	AAZ78224	Human dendritic ce
C 38	8.4	42.0	10	1	AAZ82947	Metastatic breast
C 39	8.4	42.0	10	1	AAZ831008	Metastatic breast
C 40	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 41	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 42	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 43	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 44	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 45	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 46	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 47	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 48	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 49	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 50	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 51	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 52	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 53	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 54	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 55	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 56	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 57	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 58	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 59	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 60	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 61	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 62	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 63	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 64	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 65	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 66	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 67	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 68	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 69	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 70	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 71	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 72	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 73	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 74	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 75	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 76	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 77	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 78	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 79	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 80	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 81	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 82	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 83	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 84	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 85	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 86	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 87	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 88	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 89	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 90	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 91	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 92	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 93	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 94	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 95	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 96	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 97	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 98	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 99	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 100	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 101	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 102	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 103	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 104	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 105	8.4	42.0	10	1	AAZ861119	Metastatic breast
C 106	8.4	42.0	10	1	AAZ861119	Metastatic breast

107	5:2	26.0	10	1	AAZ86307	Metastatic breast	C 180	2.8	14.0	10	1	AACT4005	Human dendritic ce
108	5:2	26.0	10	1	AAZ81791	Metastatic breast	C 181	2.8	14.0	10	1	AA56168	Human monocyte gen
109	4:8	24.0	10	1	AAF39425	Yeast NORF gene SA	C 182	2.8	14.0	10	1	AAAG63530	Human ubiquitously
110	4:8	24.0	11	1	ADQ32655	Human facial skin-	C 183	2.8	14.0	10	1	AAF38187	Yeast NORF gene SA
111	4:4	22.0	10	1	AAF42075	Yeast NORF gene SA	C 184	2.8	14.0	10	1	AAF39032	Yeast NORF gene SA
112	4:4	22.0	10	1	AAZ81566	Metastatic breast	C 185	2.8	14.0	10	1	AAF33475	Yeast NORF gene SA
113	4:2	21.0	10	1	AAQ88288	5'-target sequence	C 186	2.8	14.0	10	1	ABL60204	Human MUC1 PCR pri
114	4:2	21.0	10	1	AAQ88294	Primer sequence 8	C 187	2.8	14.0	10	1	ABV78336	Human ribosomal pr
115	4:2	21.0	10	1	AAZ08343	Nilaparvata lugens	C 188	2.8	14.0	10	1	ABK23747	Transcript tag DNA
116	4:2	21.0	10	1	AAA70756	PCR primer #2 for	C 189	2.8	14.0	10	1	AC944446	DNA tag from human
117	4:2	21.0	10	1	AAH41695	Anti-PEP gene cons	C 190	2.8	14.0	10	1	ADJ96158	CD15+ myeloid cell
118	4:2	21.0	10	1	ABT14242	Nucleic acid PCR a	C 191	2.8	14.0	10	1	ADIS3195	Human CD3E primer
119	4:2	21.0	10	1	ADK69774	Type 2 helper T (T	C 192	2.8	14.0	10	1	AD577586	Breast cancer dete
120	4:2	21.0	10	1	ADZ85566	Human BACE455 cDNA	C 193	2.8	14.0	10	1	AD576686	Breast cancer dete
121	4	20.0	9	1	ADR36038	Human nicking agen	C 194	2.8	14.0	10	1	AD577754	Breast cancer dete
122	4	20.0	9	1	ADR36039	Human nicking agen	C 195	2.4	12.0	8	1	AA880951	A. thaliana primer
123	4	20.0	9	1	ADR36041	Human nicking agen	C 196	2.4	12.0	8	1	AAA80762	A. thaliana primer
124	4	20.0	9	1	ADR36040	Human nicking agen	C 197	2.4	12.0	10	1	AA504430	Human DAXX DNA pri
125	4	20.0	11	1	ABV69205	Human skin EST 699	C 198	2.4	12.0	10	1	AAF42997	Yeast NORF gene SA
126	3:6	18.0	10	1	AA598827	Colony stimulating	C 199	2.4	12.0	10	1	ADP47134	Human phospholipas
127	3:6	18.0	11	1	ABV66235	Human skin EST 402	C 200	2.4	12.0	10	1	AA43826	Yeast NORF gene SA
128	3:6	18.0	20	1	ADP69107	Human mitONEET-spe	C 201	2.4	12.0	10	1	AA43826	Yeast NORF gene SA
129	3:6	18.0	20	1	ADP69109	Human mitONEET-spe	C 202	2.4	12.0	10	1	AA595397	Human ICAM2 gene a
130	3:6	18.0	20	1	ADP69110	Human mitONEET-spe	C 203	2.4	12.0	10	1	AA597350	Human CRYBB1 gene
131	3:6	18.0	20	1	ADP69108	Human mitONEET-spe	C 204	2.4	12.0	13	1	ABF03676	Oligonucleotide SE
132	3:6	18.0	20	1	ADP69116	Human mitONEET-spe	C 205	2.4	12.0	13	1	ABF03677	Oligonucleotide SE
133	3:6	18.0	20	1	ADP69124	Human mitONEET-spe	C 206	2.2	11.0	11	1	ADQ33489	Human facial skin-
134	3:6	18.0	20	1	ADP69130	Human mitONEET-spe	C 207	2	10.0	10	1	AAF38748	Yeast NORF gene SA
135	3:4	17.0	10	1	AAZ81653	Metastatic breast	C 208	2	10.0	10	1	AAF38731	Yeast NORF gene SA
136	3:4	17.0	10	1	ADU19570	Hypoxia-related tu	C 209	2	10.0	10	1	AAF33728	Yeast NORF gene SA
137	3:4	17.0	10	1	AAZ82947	Metastatic breast	C 210	2	10.0	10	1	AAF34632	Yeast NORF gene SA
138	3:4	17.0	10	1	AAZ83008	Metastatic breast	C 211	2	10.0	10	1	AAF36782	Yeast NORF gene SA
139	3:4	17.0	10	1	AAZ86119	Metastatic breast	C 212	2	10.0	11	1	ADG64354	DNA polymerase 3'-
140	3:4	17.0	10	1	AAF34179	Yeast NORF gene SA							
141	3:4	17.0	10	1	AAF39592	Yeast NORF gene SA							
142	3:4	17.0	10	1	AAF38171	Yeast NORF gene SA							
143	3:4	17.0	10	1	ACC41713	Zinc finger protei							
144	3:4	17.0	10	1	ADZ67944	NTRK1 gene polymor							
145	3:4	17.0	10	1	AEAG2012	NTRK1 gene polymor							
146	3:4	17.0	10	1	AAZ83176	Metastatic breast							
147	3:4	17.0	10	1	AAH63895	Human ubiquitously							
148	3:4	17.0	10	1	AAF41988	Yeast NORF gene SA							
149	3:4	17.0	10	1	ADZ25917	Human MC4R gene po							
150	3:4	17.0	10	1	ABV78460	Human Th1 cell pre							
151	3:4	17.0	10	1	ABK23710	Transcript tag DNA							
152	3:4	17.0	10	1	ADA00650	Oligonucleotide mi							
153	3:4	17.0	11	1	ABV64201	Human skin EST 198							
154	3:4	17.0	11	1	ABV71622	Human skin EST 940							
155	3:4	17.0	11	1	ABQ87397	Human skin stress/							
156	3:4	17.0	11	1	ABV65400	Human skin EST 318							
157	3:4	17.0	17	1	ABN09352	Human GMPLP-1 17-m							
158	3:4	17.0	17	1	ABN09353	Human GMPLP-1 17-m							
159	3:4	17.0	17	1	ACN093354	Human GMPLP-1 prob							
160	3:4	17.0	17	1	ACN72443	Human GMPLP-1 prob							
161	3:4	17.0	17	1	ACN72442	Human GMPLP-1 prob							
162	3:4	17.0	17	1	ACN72444	Human mitONEET-spe							
163	3:4	17.0	20	1	ADP69113	Human mitONEET-spe							
164	3:4	17.0	20	1	ADP69111	3'-primer used for							
165	3:2	16.0	8	1	AAT09601	5'-primer used for							
166	3:2	16.0	8	1	AAT09436	Human dendritic ce							
167	3:2	16.0	10	1	AAZ78224	Metastatic breast							
168	3:2	16.0	10	1	AAZ80874	Human Histamine H2							
169	3:2	16.0	10	1	AAZ95346	Human skin EST 816							
170	3:2	16.0	11	1	ABV70379	Human skin EST 744							
171	3:2	16.0	11	1	ABV62958	BsmAI restriction							
172	3	15.0	10	1	AAV05484	Yeast NORF gene SA							
173	3	15.0	10	1	AAF41789	Human IL4Ralpha ge							
174	3	15.0	10	1	AAF69645	A. thaliana primer							
175	2:8	14.0	8	1	AA81198	Exon 4/5 junction							
176	2:8	14.0	10	1	ADH69419	Yeast tag for addi							
177	2:8	14.0	10	1	AAV50258	Metastatic breast							
178	2:8	14.0	10	1	AAZ83592	Metastatic breast							
179	2:8	14.0	10	1	AAZ85035	Metastatic breast							

ALIGNMENTS

RESULT 1

ADP69107	ADP69107 standard; DNA; 20 BP.
ID	ADP69107 standard; DNA; 20 BP.
XX	
AC	ADP69107;
XX	
DT	09-SEP-2004 (first entry)
XX	
DE	Human mitONEET-specific antisense oligonucleotide #1.
XX	
KW	human; antisense oligonucleotide; mitochondrial membrane;
KW	insulin sensitising antidiabetic thiazolidinediones; mitONEET; diabetes;
KW	immunological disorder; cardiovascular disorder; including hypertension;
KW	neurological disorders; ischaemia; reperfusion; as;
KW	2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX	
OS	Homo sapiens.
XX	
PN	WO2004053060-A2.
XX	
PD	24-JUN-2004.
XX	
PF	25-NOV-2003; 2003WO-US037621.
XX	
XX	06-DEC-2002; 2002US-0431529P.
PR	(PHAA) PHARMACIA CORP.
XX	
PI	Colca JR;
XX	
DR	WPI; 2004-468836/44.
XX	
PT	New antisense oligonucleotides encoding mitONEET, useful for modulating
PT	mitONEET expression or for treating diseases associated with mitONEET,
PT	e.g. diabetes, immunological disorders or cardiovascular disorders.

XX PS Claim 4; SEQ ID NO 1; 226pp; English.

CC The invention comprises antisense oligonucleotides that are targeted to the nucleic acids encoding a family of human proteins from mitochondrial membranes, which bind insulin sensitising, antidiabetic thiazolidinediones (referred to as: mitoNEET). The antisense oligonucleotides of the invention are useful for modulating mitoNEET expression and for treating diseases or conditions associated with mitoNEET, such as: diabetes, immunological disorders, cardiovascular disorders including hypertension, neurological disorders, and ischaemia/reperfusion injuries. The present DNA sequence represents a mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a phosphorothioate backbone.

XX SQ Sequence 20 BP; 1 A; 6 C; 3 G; 10 T; 0 U; 0 Other;

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGTCCTCCAGTCTCTTCGTT 20
|||||
Db 1 TTGTCCTCCAGTCTCTTCGTT 20

RESULT 2

ADP69109

ID ADP69109 standard; DNA; 20 BP.

XX AC ADP69109;

DT 09-SEP-2004 (first entry)

XX Human mitoNEET-specific antisense oligonucleotide #3.

XX human; antisense oligonucleotide; mitochondrial membrane; insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes; immunological disorders; cardiovascular disorder; including hypertension; neurological disorders; ischaemia; reperfusion; ss;
KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.

OS Homo sapiens.

XX WO2004053060-A2.

XX 24-JUN-2004.

XX 25-NOV-2003; 2003WO-US037621.

XX 06-DEC-2002; 2002US-0431529P.

XX (PHAA) PHARMACIA CORP.

XX Colca JR;

XX WPI; 2004-468836/44.

XX New antisense oligonucleotides encoding mitoNEET, useful for modulating mitoNEET expression or for treating diseases associated with mitoNEET, e.g. diabetes, immunological disorders or cardiovascular disorders.

XX Claim 4; SEQ ID NO 3; 226pp; English.

CC The invention comprises antisense oligonucleotides that are targeted to the nucleic acids encoding a family of human proteins from mitochondrial membranes, which bind insulin sensitising, antidiabetic thiazolidinediones (referred to as: mitoNEET). The antisense oligonucleotides of the invention are useful for modulating mitoNEET expression and for treating diseases or conditions associated with mitoNEET, such as: diabetes, immunological disorders, cardiovascular disorders including hypertension, neurological disorders, and ischaemia/reperfusion injuries. The present DNA sequence represents a mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a phosphorothioate backbone.

CC ischaemia/reperfusion injuries. The present DNA sequence represents a mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a phosphorothioate backbone.

XX SQ Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

Query Match 95.0%; Score 19; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 TGTCCTCCAGTCTCTTCGTT 20
|||||
Db 1 TGTCCTCCAGTCTCTTCGTT 19

RESULT 3

ADP69110

ID ADP69110 standard; DNA; 20 BP.

XX AC ADP69110;

DT 09-SEP-2004 (first entry)

XX Human mitoNEET-specific antisense oligonucleotide #4.

XX human; antisense oligonucleotide; mitochondrial membrane; insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes; immunological disorder; cardiovascular disorder; including hypertension; neurological disorders; ischaemia; reperfusion; ss;
KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.

OS Homo sapiens.

XX WO2004053060-A2.

XX 24-JUN-2004.

XX 25-NOV-2003; 2003WO-US037621.

XX 06-DEC-2002; 2002US-0431529P.

XX (PHAA) PHARMACIA CORP.

XX Colca JR;

XX WPI; 2004-468836/44.

XX New antisense oligonucleotides encoding mitoNEET, useful for modulating mitoNEET expression or for treating diseases associated with mitoNEET, e.g. diabetes, immunological disorders or cardiovascular disorders.

XX Claim 4; SEQ ID NO 4; 226pp; English.

CC The invention comprises antisense oligonucleotides that are targeted to the nucleic acids encoding a family of human proteins from mitochondrial membranes, which bind insulin sensitising, antidiabetic thiazolidinediones (referred to as: mitoNEET). The antisense oligonucleotides of the invention are useful for modulating mitoNEET expression and for treating diseases or conditions associated with mitoNEET, such as: diabetes, immunological disorders, cardiovascular disorders including hypertension, neurological disorders, and ischaemia/reperfusion injuries. The present DNA sequence represents a mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a phosphorothioate backbone.

XX SQ Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

Query Match 95.0%; Score 19; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.3;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

QY      1 TTGCTCCAGTCTCTTCGT 19
DB      |||||
        2 TTGCTCCAGTCTCTTCGT 20

RESULT 4
ADP69108
ID      ADP69108 standard; DNA; 20 BP.
XX
AC      ADP69108;
XX
DT      09-SEP-2004 (first entry)
XX
DE      Human mitoNEET-specific antisense oligonucleotide #2.
XX
KW      human; antisense oligonucleotide; mitochondrial membrane;
KW      insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW      immunological disorder; cardiovascular disorder; including hypertension;
KW      neurological disorders; ischaemia; reperfusion; ss;
KW      2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
OS      Homo sapiens.
XX
PN      WO2004053060-A2.
XX
PD      24-JUN-2004.
XX
PF      25-NOV-2003; 2003WO-US037621.
XX
PR      06-DEC-2002; 2002US-0431529P.
XX
PA      (PHAA ) PHARMACIA CORP.
XX
PI      Colca JR;
XX
DR      WPI; 2004-468836/44.
XX
PT      New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT      mitoNEET expression or for treating diseases associated with mitoNEET,
PT      e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
PS      Claim 4; SEQ ID NO 2; 226pp; English.
XX
CC      The invention comprises antisense oligonucleotides that are targeted to
CC      the nucleic acids encoding a family of human proteins from mitochondrial
CC      membranes, which bind insulin sensitising, antidiabetic
CC      thiazolidinediones (referred to as: mitoNEET). The antisense
CC      oligonucleotides of the invention are useful for modulating mitoNEET
CC      expression and for treating diseases or conditions associated with
CC      mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC      disorders including hypertension, neurological disorders, and
CC      ischaemia/reperfusion injuries. The present DNA sequence represents a
CC      mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC      present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC      phosphorothioate backbone.
XX
SQ      Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

Query Match      90.0%; Score 18; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      3 GTCTCCAGTCTCTTCGTT 20
DB      |||||
        1 GTCTCCAGTCTCTTCGTT 18

RESULT 5
ADP69116
ID      ADP69116 standard; DNA; 20 BP.
XX
AC      ADP69116;
XX

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DT      09-SEP-2004 (first entry)
XX
DE      Human mitoNEET-specific antisense oligonucleotide #10.
XX
KW      human; antisense oligonucleotide; mitochondrial membrane;
KW      insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW      immunological disorder; cardiovascular disorder; including hypertension;
KW      neurological disorders; ischaemia; reperfusion; ss;
KW      2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
OS      Homo sapiens.
XX
PN      WO2004053060-A2.
XX
PD      24-JUN-2004.
XX
PF      25-NOV-2003; 2003WO-US037621.
XX
PR      06-DEC-2002; 2002US-0431529P.
XX
PA      (PHAA ) PHARMACIA CORP.
XX
PI      Colca JR;
XX
DR      WPI; 2004-468836/44.
XX
PT      New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT      mitoNEET expression or for treating diseases associated with mitoNEET,
PT      e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
PS      Claim 4; SEQ ID NO 10; 226pp; English.
XX
CC      The invention comprises antisense oligonucleotides that are targeted to
CC      the nucleic acids encoding a family of human proteins from mitochondrial
CC      membranes, which bind insulin sensitising, antidiabetic
CC      thiazolidinediones (referred to as: mitoNEET). The antisense
CC      oligonucleotides of the invention are useful for modulating mitoNEET
CC      expression and for treating diseases or conditions associated with
CC      mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC      disorders including hypertension, neurological disorders, and
CC      ischaemia/reperfusion injuries. The present DNA sequence represents a
CC      mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC      present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC      phosphorothioate backbone.
XX
SQ      Sequence 20 BP; 2 A; 7 C; 3 G; 8 T; 0 U; 0 Other;

Query Match      90.0%; Score 18; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TTGCTCCAGTCTCTTCG 18
DB      |||||
        3 TTGCTCCAGTCTCTTCG 20

RESULT 6
ADP69124
ID      ADP69124 standard; DNA; 20 BP.
XX
AC      ADP69124;
XX
DT      09-SEP-2004 (first entry)
XX
DE      Human mitoNEET-specific antisense oligonucleotide #18.
XX
KW      human; antisense oligonucleotide; mitochondrial membrane;
KW      insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW      immunological disorder; cardiovascular disorder; including hypertension;
KW      neurological disorders; ischaemia; reperfusion; ss;
KW      2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
OS      Homo sapiens.

```

XX WO2004053060-A2.
 XX 24-JUN-2004.
 XX 25-NOV-2003; 2003WO-US037621.
 XX 06-DEC-2002; 2002US-0431529P.
 XX (PHAA) PHARMACIA CORP.
 XX Colca JR;
 XX WPI; 2004-468836/44.
 XX New antisense oligonucleotides encoding mitONEET, useful for modulating
 PT mitONEET expression or for treating diseases associated with mitONEET,
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.
 XX Claim 4; SEQ ID NO 18; 226pp; English.
 XX The invention comprises antisense oligonucleotides that are targeted to
 CC the nucleic acids encoding a family of human proteins from mitochondrial
 CC membranes, which bind insulin sensitising, antidiabetic
 CC thiazolidinediones (referred to as: mitONEET). The antisense
 CC oligonucleotides of the invention are useful for modulating mitONEET
 CC expression and for treating diseases or conditions associated with
 CC mitONEET, such as: diabetes, immunological disorders, cardiovascular
 CC disorders including hypertension, neurological disorders, and
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a
 CC mitONEET-specific antisense oligonucleotide of the invention. NOTE: The
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
 CC phosphorothioate backbone.
 XX Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;
 SQ Query Match 85.0%; Score 17; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4.7;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TTGTCCTCCAGTCTCTTC 17
 DB 4 TTGTCCTCCAGTCTCTTC 20
 RESULT 7
 ADP69113
 ID ADP69113 standard; DNA; 20 BP.
 XX AC ADP69113;
 XX 09-SEP-2004 (first entry)
 XX Human mitONEET-specific antisense oligonucleotide #7.
 XX human; antisense oligonucleotide; mitochondrial membrane;
 KW insulin sensitising antidiabetic thiazolidinediones; mitONEET; diabetes;
 KW immunological disorder; cardiovascular disorder; including hypertension;
 KW neurological disorders; ischaemia; reperfusion; ss;
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
 XX Homo sapiens.
 OS
 XX WO2004053060-A2.
 XX 24-JUN-2004.
 XX 25-NOV-2003; 2003WO-US037621.
 XX 06-DEC-2002; 2002US-0431529P.
 XX (PHAA) PHARMACIA CORP.
 XX Colca JR;
 XX WPI; 2004-468836/44.
 XX New antisense oligonucleotides encoding mitONEET, useful for modulating
 PT mitONEET expression or for treating diseases associated with mitONEET,
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.
 XX Claim 4; SEQ ID NO 18; 226pp; English.
 XX The invention comprises antisense oligonucleotides that are targeted to

PI Colca JR;
 XX WPI; 2004-468836/44.
 XX New antisense oligonucleotides encoding mitONEET, useful for modulating
 PT mitONEET expression or for treating diseases associated with mitONEET,
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.
 XX Claim 4; SEQ ID NO 7; 226pp; English.
 XX The invention comprises antisense oligonucleotides that are targeted to
 CC the nucleic acids encoding a family of human proteins from mitochondrial
 CC membranes, which bind insulin sensitising, antidiabetic
 CC thiazolidinediones (referred to as: mitONEET). The antisense
 CC oligonucleotides of the invention are useful for modulating mitONEET
 CC expression and for treating diseases or conditions associated with
 CC mitONEET, such as: diabetes, immunological disorders, cardiovascular
 CC disorders including hypertension, neurological disorders, and
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a
 CC mitONEET-specific antisense oligonucleotide of the invention. NOTE: The
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
 CC phosphorothioate backbone.
 XX Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;
 SQ Query Match 85.0%; Score 17; DB 1; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4.7;
 Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 4 TCTCCAGTCTCTTCGTT 20
 DB 1 TCTCCAGTCTCTTCGTT 17
 RESULT 8
 ADP69111
 ID ADP69111 standard; DNA; 20 BP.
 XX AC ADP69111;
 XX 09-SEP-2004 (first entry)
 XX Human mitONEET-specific antisense oligonucleotide #5.
 XX human; antisense oligonucleotide; mitochondrial membrane;
 KW insulin sensitising antidiabetic thiazolidinediones; mitONEET; diabetes;
 KW immunological disorder; cardiovascular disorder; including hypertension;
 KW neurological disorders; ischaemia; reperfusion; ss;
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
 XX Homo sapiens.
 OS
 XX WO2004053060-A2.
 XX 24-JUN-2004.
 XX 25-NOV-2003; 2003WO-US037621.
 XX 06-DEC-2002; 2002US-0431529P.
 XX (PHAA) PHARMACIA CORP.
 XX Colca JR;
 XX WPI; 2004-468836/44.
 XX New antisense oligonucleotides encoding mitONEET, useful for modulating
 PT mitONEET expression or for treating diseases associated with mitONEET,
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.
 XX Claim 4; SEQ ID NO 5; 226pp; English.
 XX The invention comprises antisense oligonucleotides that are targeted to

CC the nucleic acids encoding a family of human proteins from mitochondrial
CC membranes, which bind insulin sensitising, antidiabetic
CC thiazolidinediones (referred to as: mitoNEET). The antisense
CC oligonucleotides of the invention are useful for modulating mitoNEET
CC expression and for treating diseases or conditions associated with
CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC disorders including hypertension, neurological disorders, and
CC ischaemia/reperfusion injuries. The present DNA sequence represents a
CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC phosphorothioate backbone.
XX
SQ Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;

Query Match 80.0%; Score 16; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.8;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CTCGAGTCTCTTCGTT 20
Db 1 CTCGAGTCTCTTCGTT 16

RESULT 9
ADP69130
ID ADP69130 standard; DNA; 20 BP.

XX ADP69130;

XX 09-SEP-2004 (first entry)

XX Human mitoNEET-specific antisense oligonucleotide #24.

XX human; antisense oligonucleotide; mitochondrial membrane;
KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW immunological disorder; cardiovascular disorder; including hypertension;
KW neurological disorders; ischaemia; reperfusion; ss;
KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.

XX Homo sapiens.

XX WO2004053060-A2.

XX 24-JUN-2004.

XX 25-NOV-2003; 2003WO-US037621.

XX 06-DEC-2002; 2002US-0431529P.

XX (PHAA) PHARMACIA CORP.

XX Colca JR;

XX WPI; 2004-468836/44.

XX New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT mitoNEET expression or for treating diseases associated with mitoNEET,
PT e.g. diabetes, immunological disorders or cardiovascular disorders.

XX Claim 4; SEQ ID NO 24; 226pp; English.

XX The invention comprises antisense oligonucleotides that are targeted to
CC the nucleic acids encoding a family of human proteins from mitochondrial
CC membranes, which bind insulin sensitising, antidiabetic
CC thiazolidinediones (referred to as: mitoNEET). The antisense
CC oligonucleotides of the invention are useful for modulating mitoNEET
CC expression and for treating diseases or conditions associated with
CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC disorders including hypertension, neurological disorders, and
CC ischaemia/reperfusion injuries. The present DNA sequence represents a
CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC phosphorothioate backbone.

XX SQ Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;
Query Match 80.0%; Score 16; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.8;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGTCTCCAGTCTCTT 16
Db 5 TTGTCTCCAGTCTCTT 20

RESULT 10
ABN09352/C
ID ABN09352 standard; DNA; 17 BP.

XX ABN09352;

XX 29-MAY-2002 (first entry)

XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9344.

XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
KW skeletal muscle disorder; amplicon; screening; ss.

XX Homo sapiens.

XX WO200192524-A2.

XX 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016981.

XX 26-MAY-2000; 2000US-0207456P.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX 30-JAN-2001; 2001WO-US000661.

XX 30-JAN-2001; 2001WO-US000662.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

XX 30-JAN-2001; 2001WO-US000665.

XX 30-JAN-2001; 2001WO-US000666.

XX 30-JAN-2001; 2001WO-US000667.

XX 30-JAN-2001; 2001WO-US000668.

XX 30-JAN-2001; 2001WO-US000669.

XX 05-FEB-2001; 2001US-0266860P.

XX (AEOM-) AEOMICA INC.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;

XX WPI; 2002-179446/23.

XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
PT or as specific biomolecule capture probes for surface-enhanced laser
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX Disclosure; SEQ ID NO 9344; 214pp; English.

XX The present invention describes a human genome-derived myosin-like
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
CC nucleic acids can be used as probes to detect, characterise and quantify
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
CC provide initial substrates for the recombinant engineering of hGDMPLP-1
CC protein variants having desired phenotypic improvements, and for
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
CC -1 proteins, as standards in assays used to determine the concentration
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule

CC capture probes for surface-enhanced laser desorption ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 6 A; 2 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 69.0%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 12;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCTTCGTT 20
 || |||| |||| |||| ||||
 Db 17 TCCCCAGCGCTCTTCGTT 1

RESULT 11
 ABN09353/c
 ID ABN09353 standard; DNA; 17 BP.
 XX
 AC ABN09353;
 XX
 DT 29-MAY-2002 (first entry)
 XX
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9345.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200192524-A2.
 XX
 PD 06-DEC-2001.
 XX
 PF 25-MAY-2001; 2001WO-US016981.
 XX
 PR 26-MAY-2000; 2000US-0207456P.
 PR 21-SEP-2000; 2000US-0234687P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024263.
 PR 30-JAN-2001; 2001WO-US000661.
 PR 30-JAN-2001; 2001WO-US000662.
 PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000666.
 PR 30-JAN-2001; 2001WO-US000667.
 PR 30-JAN-2001; 2001WO-US000668.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 05-FEB-2001; 2001US-0266860P.
 XX
 PA (ABOM-) ABOMICA INC.
 XX
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX
 DR WPI; 2002-179446/23.
 XX
 PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX
 PS Disclosure; SEQ ID NO 9345; 214pp; English.
 XX

CC The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterise and quantify
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 69.0%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 12;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGT 19
 |||| |||| |||| |||| ||||
 Db 17 GTCCCGAGCGCTCTTCGT 1

RESULT 12
 ABN09354/c
 ID ABN09354 standard; DNA; 17 BP.
 XX
 AC ABN09354;
 XX
 DT 29-MAY-2002 (first entry)
 XX
 DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9346.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMPLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200192524-A2.
 XX
 PD 06-DEC-2001.
 XX
 PF 25-MAY-2001; 2001WO-US016981.
 XX
 PR 26-MAY-2000; 2000US-0207456P.
 PR 21-SEP-2000; 2000US-0234687P.
 PR 27-SEP-2000; 2000US-0236359P.
 PR 04-OCT-2000; 2000GB-00024263.
 PR 30-JAN-2001; 2001WO-US000661.
 PR 30-JAN-2001; 2001WO-US000662.
 PR 30-JAN-2001; 2001WO-US000663.
 PR 30-JAN-2001; 2001WO-US000664.
 PR 30-JAN-2001; 2001WO-US000665.
 PR 30-JAN-2001; 2001WO-US000666.
 PR 30-JAN-2001; 2001WO-US000667.
 PR 30-JAN-2001; 2001WO-US000668.
 PR 30-JAN-2001; 2001WO-US000669.
 PR 05-FEB-2001; 2001US-0266860P.
 XX
 PA (ABOM-) ABOMICA INC.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
 XX WPI; 2002-179446/23.
 XX
 PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
 PT or as specific biomolecule capture probes for surface-enhanced laser
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
 XX
 XX Disclosure; SEQ ID NO 9346; 214pp; English.
 XX
 CC The present invention describes a human genome-derived myosin-like
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
 CC nucleic acids can be used as probes to detect, characterise and quantify
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1
 CC protein variants having desired phenotypic improvements, and for
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
 CC -1 proteins, as standards in assays used to determine the concentration
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
 CC capture probes for surface-enhanced laser desorption/ionisation, as
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
 CC production, and in vaccines or for replacement therapy. The
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
 CC disorder associated with the expression of hGDMPLP-1, in particular heart
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
 CC The present sequence represents an oligomer used in the screening of the
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
 CC The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/published_pct_sequence
 XX
 SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;
 Query Match 69.0%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 12;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 2 TGCTCCAGTCTCTTCG 18
 |||||
 Db 17 TGTCCTCCAGCTCTTCG 1
 RESULT 13
 ACN72443/c
 ID ACN72443 standard; DNA; 17 BP.
 XX
 AC ACN72443;
 XX
 DT 02-DEC-2004 (first entry)
 XX
 XX Human GDMPLP-1 probe SEQ ID NO:9345.
 DE
 DE Human; ss; probe; myosin-like protein-1; hGDMPLP-1;
 KW hGDMPLP-1 agonist hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;
 KW skeletal muscle function.
 XX
 OS Homo sapiens.
 XX
 XX US2004137589-A1.
 PN
 PD 15-JUL-2004.
 XX
 XX 26-NOV-2003; 2003US-00723361.
 XX
 XX 26-MAY-2000; 2000US-0207456P.
 PR
 PR 21-SEP-2000; 2000US-0234687P.
 PR
 PR 27-SEP-2000; 2000US-0236359P.
 PR
 PR 04-OCT-2000; 2000GB-00024263.
 PR
 PR 30-JAN-2001; 2001WO-US000661.
 PR
 PR 30-JAN-2001; 2001WO-US000662.

PR 30-JAN-2001; 2001WO-US000663.
 PR
 PR 30-JAN-2001; 2001WO-US000664.
 PR
 PR 30-JAN-2001; 2001WO-US000665.
 PR
 PR 30-JAN-2001; 2001WO-US000666.
 PR
 PR 30-JAN-2001; 2001WO-US000667.
 PR
 PR 30-JAN-2001; 2001WO-US000668.
 PR
 PR 30-JAN-2001; 2001WO-US000669.
 PR
 PR 05-FEB-2001; 2001US-0266860P.
 PR
 PR 25-MAY-2001; 2001US-00866108.
 XX
 XX (GUY/) GU Y.
 PA (JIY/) JI Y.
 PA (PENN/) PENN S G.
 PA (HANZ/) HANZEL D K.
 PA (RANK/) RANK D.
 PA (CHEN/) CHEN W.
 PA (SHAN/) SHANNON M E.
 XX
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;
 XX WPI; 2004-533378/51.
 XX
 XX Novel myosin-like protein-1, useful for treating or preventing disorder
 XX associated with decreased expression or activity of human genome-derived
 PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle
 PT function.
 PT
 XX Disclosure; SEQ ID NO 9345; 0pp; English.
 PS
 XX The invention relates to a novel polypeptide (I) comprising a sequence
 CC (SI) of myosin-like protein-1 (hGDMPLP-1) having 2568 amino acids fully
 CC defined in the specification, a fragment of at least 8 amino acids of
 CC (SI), 95% deviation from (SI) which are conservative substitutions, and
 CC 65% identity to (SI). A polypeptide of the invention acts as a agonist or
 CC antagonist of hGDMPLP-1, or as an inhibitor of hGDMPLP-1 activity. A
 CC pharmaceutical composition of the invention is useful for treating or
 CC preventing a disorder associated with decreased expression or activity of
 CC hGDMPLP-1, such as a disorder of heart and/or skeletal muscle function.
 CC The present sequence represents a 17-mer nucleotide, used in the
 CC invention for scanning the sequence represented in ACN63103
 XX
 XX Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;
 SQ
 Query Match 69.0%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 12;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 3 GTCTCCAGTCTCTTCG 19
 |||||
 Db 17 GTCCCTCCAGCTCTTCG 1
 RESULT 14
 ACN72442/c
 ID ACN72442 standard; DNA; 17 BP.
 XX
 AC ACN72442;
 XX
 XX 02-DEC-2004 (first entry)
 DT
 XX Human GDMPLP-1 probe SEQ ID NO:9344.
 DE
 DE Human; ss; probe; myosin-like protein-1; hGDMPLP-1;
 KW hGDMPLP-1 agonist hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;
 KW skeletal muscle function.
 XX
 OS Homo sapiens.
 XX
 XX US2004137589-A1.
 PN
 PD 15-JUL-2004.
 XX


```

AC ABF03676;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 103673 for detecting SNP TSC0025934.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
KW
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 103673; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT99989
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 5 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 13;
XX Best Local Similarity 91.7%; Pred. No. 27;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCTCCAGTCTCT 15
Db 13 TCTCCGCTCTCT 2

RESULT 17
ABF03677
ID ABF03677 standard; DNA; 13 BP.
XX
XX ABF03677;
XX
XX 21-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 103674 for detecting SNP TSC0025934.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
KW
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 103673; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation. ABC00010
XX -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT99989
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 13 BP; 5 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 52.0%; Score 10.4; DB 1; Length 13;
XX Best Local Similarity 91.7%; Pred. No. 27;
XX Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 4 TCTCCAGTCTCT 15
Db 13 TCTCCGCTCTCT 2

RESULT 18
ABV64201/c
ID ABV64201 standard; cDNA; 11 BP.
XX
XX ABV64201;
XX
XX 21-OCT-2002 (first entry)
XX
XX Human skin EST 1987.
XX
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX
XX WO200253774-A2.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015179.
XX
XX 03-JAN-2001; 2001DE-01000127.
XX
XX (HENK ) HENKEL KGAA.
XX
XX Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-590638/63.
XX

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PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.

XX Disclosure; Page 80; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention

XX Sequence 11 BP; 3 A; 1 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;
 Best Local Similarity 90.9%; Pred. No. 30;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CCAGTCTCTTC 17
 Db 11 CCAGCCTCTTC 1

RESULT 19

ABV71622/c
 ID ABV71622 standard; cDNA; 11 BP.

XX AC ABV71622;

XX DT 21-OCT-2002 (first entry)

XX DE Human skin EST 9408.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;
 KW immunosuppressive; antiinflammatory; cytosatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX OS Homo sapiens.

XX PN WO200253774-A2.

XX PD 11-JUL-2002.

XX PF 20-DEC-2001; 2001WO-EP015179.

XX PR 03-JAN-2001; 2001DE-01000127.

XX PA (HENK) HENKEL KGAA.

XX PI Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.

XX Claim 24; Page 303; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin

CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention

XX Sequence 11 BP; 3 A; 1 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;
 Best Local Similarity 90.9%; Pred. No. 30;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CCAGTCTCTTC 17
 Db 11 CCAGCCTCTTC 1

RESULT 20

ADQ33489/c
 ID ADQ33489 standard; DNA; 11 BP.

XX AC ADQ33489;

XX DT 23-SEP-2004 (first entry)

XX DE Human facial skin-associated DNA fragment SEQ ID NO 1579.

XX facial skin; human; serial analysis of gene expression; SAGE;
 KW homeostasis; biochip; cosmetic; pharmaceutical; ds.

XX OS Homo sapiens.

XX PN DE10260928-A1.

XX PD 08-JUL-2004.

XX PF 20-DEC-2002; 2002DE-01060928.

XX PR 20-DEC-2002; 2002DE-01060928.

XX PA (HENK) HENKEL KGAA.

XX Petersohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
 PI Conradt M, Hofmann K;

XX WPI; 2004-518855/50.

XX In vitro identification of genes important for facial skin, useful for
 PT assessing homeostasis and in screening for pharmaceutical or cosmetic
 PT agents, based on differential expression analysis.

XX Claim 5; SEQ ID NO 1579; 577pp; German.

XX This invention describes a novel in vitro method for identifying genes
 CC that are significant for facial skin in humans. The method comprises
 CC recovering, from facial skin, a first mixture of genetically expressed
 CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
 CC their fragments), recovering a second, similar mixture from some other
 CC human tissue, preferably skin from a protected area, especially from the
 CC breast and subjecting the mixtures to serial analysis of gene expression
 CC (SAGE) to identify those genes for which expression is markedly different
 CC between facial skin and the other tissue. The invention also describes an
 CC in vitro method for determining homeostasis of human facial skin; a test
 CC kit which comprises a solid support (flexible or rigid) on which are
 CC immobilised probes that bind specifically to the factors of interest and
 CC a biochip for determining homeostasis of human facial skin. The products
 CC of the invention are also used in a method which determines activity of
 CC cosmetic and pharmaceutical agents for use against disorders or
 CC disturbances of the homeostasis of human skin and a screening method for
 CC identifying cosmetic and pharmaceutical agents. The method allows
 CC identification of as many as possible of the genes important for facial
 CC skin and thus of a very wide range of potential therapeutic and cosmetic
 CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to

CC Identify the facial skin-associated genes described in the invention.
XX
SQ Sequence 11 BP; 5 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 30;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CCACTCTCTTC 17
|||||
Db 11 CCACTTCTTC 1

RESULT 21
ADQ32655/C
ID ADQ32655 standard; DNA; 11 BP.

XX AC ADQ32655;
XX
XX 23-SEP-2004 (first entry)
XX Human facial skin-associated DNA fragment SEQ ID NO 745.
XX facial skin; human; serial analysis of gene expression; SAGE;
KW homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX Homo sapiens.
XX DE10260928-A1.
PN XX
XX 08-JUL-2004.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX
XX 20-DEC-2002; 2002DE-01060928.
XX (HENKEL KGAA.
XX
XX Petersohn D, Schlottmann K, Gassenmeier T, Holtkoetter O;
PI Conradt M, Hofmann K;
PI WPI; 2004-518855/50.

XX In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.

XX Claim 5; SEQ ID NO 745; 577pp; German.

XX This invention describes a novel in vitro method for identifying genes
XX that are significant for facial skin in humans. The method comprises
XX recovering, from facial skin, a first mixture of genetically expressed
XX (transcribed and optionally translated) factors (i.e. proteins, mRNA or
XX their fragments), recovering a second, similar mixture from some other
XX human tissue, preferably skin from a protected area, especially from the
XX breast and subjecting the mixtures to serial analysis of gene expression
XX (SAGE) to identify those genes for which expression is markedly different
XX between facial skin and the other tissue. The invention also describes an
XX in vitro method for determining homeostasis of human facial skin; a test
XX kit which comprises a solid support (flexible or rigid) on which are
XX immobilised probes that bind specifically to the factors of interest and
XX a biochip for determining homeostasis of human facial skin. The products
XX of the invention are also used in a method which determines activity of
XX cosmetic and pharmaceutical agents for use against disorders or
XX disturbances of the homeostasis of human skin and a screening method for
XX identifying cosmetic and pharmaceutical agents. The method allows
XX identification of as many as possible of the genes important for facial
XX skin and thus of a very wide range of potential therapeutic and cosmetic
XX agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
XX identify the facial skin-associated genes described in the invention.

SQ Sequence 11 BP; 5 A; 3 C; 2 G; 1 T; 0 U; 0 Other;

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 30;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGT 11
|||||
Db 11 TTGTCTGCACT 1

RESULT 22
AAZ81653
ID AAZ81653 standard; DNA; 10 BP.

XX AC AAZ81653;
XX
XX 07-APR-2000 (first entry)
XX Metastatic breast tumour cell upregulated transcript tag #887.
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW anti-metastatic; vaccine; diagnosis; ss.
XX Homo sapiens.
XX OS
XX WO9965928-A2.
PN XX
XX 23-DEC-1999.
PD XX
XX 18-JUN-1999; 99WO-US013647.
XX
XX 19-JUN-1998; 98US-0089853P.
PR 13-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B.L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
PI WPI; 2000-106079/09.

XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.

XX Claim 1; Page 82; 219pp; English.

XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
XX that are preferentially transcribed in the metastatic breast tumour
XX tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
XX to AAZ86677 represent tags corresponding to distinct transcripts that are
XX preferentially transcribed in the primary or non-metastatic breast tumour
XX tissue (i.e. are downregulated in metastatic breast tumour cells). These
XX transcripts can be used for diagnosis, prognosis, monitoring and
XX treatment of breast cancer, particularly where metastatic. Diagnosis is
XX by standard immunoassays or hybridisation/amplification reactions.
XX Compounds that modulate expression of the transcripts are potentially
XX useful for treatment of (metastatic) breast cancer, while promoters from
XX the transcripts are used to direct expression, in selected cell types, of
XX e.g. therapeutic genes (also ribozymes or antisense sequences),
XX particularly an antigen-encoding sequence for use in gene or cell-based
XX vaccines. Polypeptides encoded by the transcripts are also useful in
XX vaccines; for diagnosing breast cancer and for raising specific
XX antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
XX agents. Host cells that produce the polypeptides can be used to expand
XX and isolate populations of educated, antigen-specific immune effector
XX cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
XX immunotherapy

SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
 Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 31;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 6 TCCAGTCTTC 14
 |||||
 Db 2 TCCAGTCTTC 10

RESULT 23
 AAF42075
 ID AAF42075 standard; DNA; 10 BP.
 XX AC AAF42075;
 XX DT 23-MAR-2001 (first entry)
 XX YEAST NORF gene SAGE tag oligonucleotide SEQ ID NO:8814.
 XX YEAST; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX OS Saccharomyces cerevisiae.
 XX WO200077214-A2.
 XX 21-DEC-2000.
 XX 14-JUN-2000; 2000WO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNIV JOHNS HOPKINS.
 XX Velulescu V, Vogelstein B, Kinzler K;
 XX WPI; 2001-061874/07.
 XX YEAST gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX Example; Page 314; 419pp; English.

CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.

CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
 SQ Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 31;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 9 AGTCTCTTC 17
 |||||
 Db 2 AGTCTCTTC 10

RESULT 24
 ADUI9570/c
 ID ADUI9570 standard; DNA; 10 BP.
 XX AC ADUI9570;
 XX 13-JAN-2005 (first entry)
 XX Hypoxia-related tumorigenesis-related SAGE tag #1361.
 DE screening; hypoxia-related tumorigenesis;
 KW hypoxia-induced gene regulation; tumour; SAGE tag; ds.
 KW Unidentified.
 XX OS
 XX WO2004092198-A2.
 XX 28-OCT-2004.
 XX 09-APR-2004; 2004WO-US011087.
 XX 09-APR-2003; 2003US-0461712P.
 XX (GENZ) GENZYME CORP.
 XX Nacht M;
 XX WPI; 2004-758333/74.
 XX Identifying agents that alter biological activity of a polypeptide
 PT encoded by a polynucleotide involved in hypoxia-related tumorigenesis
 PT comprises contacting an agent with a target cell and monitoring activity
 PT of expressed product.
 XX Disclosure; Page 82; 100pp; English.

CC The invention comprises a method of screening for candidate agents
 CC capable of altering the biological activity of a protein encoded by a
 CC nucleotide involved in hypoxia-related tumorigenesis. The method of the
 CC invention involves: contacting a test agent with a target cell expressing
 CC the nucleotide, and monitoring the activity of the expressed protein
 CC product; if the test agent modifies the activity of the expressed protein
 CC then this is a candidate agent. The method of the invention is useful for
 CC modifying hypoxia-induced gene regulation and for diagnosing, prognosing
 CC or treating tumours. The present DNA sequence represents a SAGE tag that
 CC was used in the exemplification of the invention.

XX Sequence 10 BP; 4 A; 1 C; 3 G; 2 T; 0 U; 0 Other;
 SQ Query Match 45.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 31;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 9 AGTCTCTTC 17
 |||||
 Db 10 AGTCTCTTC 2

RESULT 25

PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Disclosure; Page 45; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
XX Sequence 11 BP; 3 A; 4 C; 3 G; 1 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 TGCTCCAG 10
Db 11 TGCTCCAG 3
|||||
RESULT 28
ABV69205
ID ABV69205 standard; cDNA; 11 BP.
XX
XX
AC ABV69205;
XX
XX 21-OCT-2002 (first entry)
XX Human skin EST 6991.
XX
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX
XX WO200253774-A2.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015179.
XX
XX 03-JAN-2001; 2001DE-01000127.
XX (HENK) HENKEL KGAA.
XX
XX Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Disclosure; Page 219; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin

CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
XX Sequence 11 BP; 2 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 TGCTCCAG 10
Db 3 TGCTCCAG 11
|||||
RESULT 29
ABV66235
ID ABV66235 standard; cDNA; 11 BP.
XX
XX
AC ABV66235;
XX
XX 21-OCT-2002 (first entry)
XX Human skin EST 4021.
XX
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
XX
XX WO200253774-A2.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015179.
XX
XX 03-JAN-2001; 2001DE-01000127.
XX (HENK) HENKEL KGAA.
XX
XX Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Disclosure; Page 136; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
XX Sequence 11 BP; 1 A; 3 C; 4 G; 3 T; 0 U; 0 Other;
SQ
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 TGCTCCAG 10

KW ss; nicking agent; assay panel; diagnosis; expression pattern;
 KW DNA fingerprinting; nosocomial infection; microbiological assay;
 KW bacterial contamination; genome mapping; bioremediation.
 XX Homo sapiens.
 XX WO2004067765-A2.
 XX 12-AUG-2004.
 XX 29-JAN-2004; 2004WO-US002720.
 XX 29-JAN-2003; 2003US-0443811P.
 XX (KECK-) KECK GRADUATE INST.
 XX Van Ness J, Galas DJ, Van Ness LK;
 XX WPI; 2004-581010/56.
 XX Identifying nucleic acid sample source, useful for identifying bacterial
 PT strains involved in nosocomial infections, comprises treating the nucleic
 PT acid sample with components comprising a nicking agent under nicking
 PT conditions.
 XX Example 3; Page 105-219; 238pp; English.
 PS The invention relates to a method of treating a nucleic acid sample with
 CC components under nicking conditions, where the components comprise a
 CC nicking agent, and the conditions cause the nicking agent to nick the
 CC nucleic acid sample to thus produce a family of initiating
 CC oligonucleotide fragments, and subjecting one or more members of the
 CC family of initiating oligonucleotide fragments to a characterization
 CC process to thus provide results. The method is useful for creating an
 CC assay panel of diagnostic oligonucleotides that can identify any organism
 CC or individual. The method is useful for characterizing other DNA
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.
 CC The method, kit or composition is useful for identifying the source
 CC of a nucleic acid sample e.g., bacterium, fungus, virus, plant,
 CC non-human animal or human. The method is particularly useful for rapidly
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,
 CC subspecies, and especially strains or individuals of the subspecies. It
 CC is especially useful for identifying different bacterial strains involved
 CC in e.g., nosocomial infections. Furthermore, the method is useful for
 CC diagnosing bacterial disease in plants and humans, monitoring for
 CC bacterial contamination, monitoring quality assurance/quality control of
 CC laboratory tests involving microbiological assays, tracing bacterial
 CC contamination and/or outbreaks of bacterial infections, genome mapping,
 CC monitoring bioremediation sites, and for monitoring agricultural sites
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI
 CC restriction site and used in the method of the invention.
 XX Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;
 SQ Query Match 43.0%; Score 8.6; DB 1; Length 9;
 Best Local Similarity 88.9%; Pred. No. 2.5e+02;
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 8 CAGTCTCTT 16
 Db |||||:|
 9 CAGTCTSTT 1
 RESULT 33
 ADR36039/c
 ID ADR36039 standard; DNA; 9 BP.
 XX ADR36039;
 AC ADR36039;
 XX 04-NOV-2004 (first entry)
 DT

XX Human nicking agent DNA containing BstNBI restriction site #2459.
 DE ss; nicking agent; assay panel; diagnosis; expression pattern;
 XX DNA fingerprinting; nosocomial infection; microbiological assay;
 KW bacterial contamination; genome mapping; bioremediation.
 KW Homo sapiens.
 XX WO2004067765-A2.
 XX 12-AUG-2004.
 XX 29-JAN-2004; 2004WO-US002720.
 XX 29-JAN-2003; 2003US-0443811P.
 XX (KECK-) KECK GRADUATE INST.
 XX Van Ness J, Galas DJ, Van Ness LK;
 XX WPI; 2004-581010/56.
 XX Identifying nucleic acid sample source, useful for identifying bacterial
 PT strains involved in nosocomial infections, comprises treating the nucleic
 PT acid sample with components comprising a nicking agent under nicking
 PT conditions.
 XX Example 3; Page 105-219; 238pp; English.
 PS The invention relates to a method of treating a nucleic acid sample with
 CC components under nicking conditions, where the components comprise a
 CC nicking agent, and the conditions cause the nicking agent to nick the
 CC nucleic acid sample to thus produce a family of initiating
 CC oligonucleotide fragments, and subjecting one or more members of the
 CC family of initiating oligonucleotide fragments to a characterization
 CC process to thus provide results. The method is useful for creating an
 CC assay panel of diagnostic oligonucleotides that can identify any organism
 CC or individual. The method is useful for characterizing other DNA
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.
 CC The method, kit or composition is useful for identifying the source
 CC of a nucleic acid sample e.g., bacterium, fungus, virus, plant,
 CC non-human animal or human. The method is particularly useful for rapidly
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,
 CC subspecies, and especially strains or individuals of the subspecies. It
 CC is especially useful for identifying different bacterial strains involved
 CC in e.g., nosocomial infections. Furthermore, the method is useful for
 CC diagnosing bacterial disease in plants and humans, monitoring for
 CC bacterial contamination, monitoring quality assurance/quality control of
 CC laboratory tests involving microbiological assays, tracing bacterial
 CC contamination and/or outbreaks of bacterial infections, genome mapping,
 CC monitoring bioremediation sites, and for monitoring agricultural sites
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI
 CC restriction site and used in the method of the invention.
 XX Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;
 SQ Query Match 43.0%; Score 8.6; DB 1; Length 9;
 Best Local Similarity 88.9%; Pred. No. 2.5e+02;
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
 Qy 8 CAGTCTCTT 16
 Db |||||:|
 9 CAGTCTSTT 1
 RESULT 34
 ADR36041/c
 ID ADR36041 standard; DNA; 9 BP.
 XX ADR36041;

AC ADR36041;
 XX 04-NOV-2004 (first entry)
 XX Human nicking agent DNA containing BstNBI restriction site #2461.
 DE ss; nicking agent; assay panel; diagnosis; expression pattern;
 XX DNA fingerprinting; nosocomial infection; microbiological assay;
 KW bacterial contamination; genome mapping; bioremediation.
 KW Homo sapiens.
 XX W02004067765-A2.
 XX 12-AUG-2004.
 XX 29-JAN-2004; 2004WO-US002720.
 PF 29-JAN-2003; 2003US-0443811P.
 XX (KECK-) KECK GRADUATE INST.
 XX Van Ness J, Galas DJ, Van Ness LK;
 XX WPI; 2004-581010/56.
 XX Identifying nucleic acid sample source, useful for identifying bacterial
 PT strains involved in nosocomial infections, comprises treating the nucleic
 PT acid sample with components comprising a nicking agent under nicking
 PT conditions.
 XX Example 3; Page 105-219; 238pp; English.
 XX The invention relates to a method of treating a nucleic acid sample with
 CC components under nicking conditions, where the components comprise a
 CC nicking agent, and the conditions cause the nicking agent to nick the
 CC nucleic acid sample to thus produce a family of initiating
 CC oligonucleotide fragments, and subjecting one or more members of the
 CC family of initiating oligonucleotide fragments to a characterization
 CC process to thus provide results. The method is useful for creating an
 CC assay panel of diagnostic oligonucleotides that can identify any organism
 CC or individual. The method is useful for characterizing other DNA
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.
 CC The method, kit or composition is useful for identifying the source
 CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,
 CC non-human animal or human. The method is particularly useful for rapidly
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,
 CC subspecies, and especially strains or individuals of the subspecies. It
 CC is especially useful for identifying different bacterial strains involved
 CC in e.g., nosocomial infections. Furthermore, the method is useful for
 CC diagnosing bacterial infections. Furthermore, the method is useful for
 CC bacterial content and/or contamination in the environment, monitoring
 CC food for bacterial contamination, monitoring manufacturing processes for
 CC bacterial contamination, monitoring quality assurance/quality control of
 CC laboratory tests involving microbiological assays, tracing bacterial
 CC contamination and/or outbreaks of bacterial infections, genome mapping,
 CC monitoring bioremediation sites, and for monitoring agricultural sites
 CC for test crops, bacteria and recombinant molecules. Sequences ADR3581-
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI
 CC restriction site and used in the method of the invention.
 XX Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 43.0%; Score 8.6; DB 1; Length 9;
 Best Local Similarity 88.9%; Pred. No. 2.5e+02;
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 8 CAGTCTCTT 16
 |||||:|
 Db 9 CAGTCTSTT 1

RESULT 35

ADR36040/c
 ID ADR36040 standard; DNA; 9 BP.
 XX ADR36040;
 AC 04-NOV-2004 (first entry)
 DT Human nicking agent DNA containing BstNBI restriction site #2460.
 XX ss; nicking agent; assay panel; diagnosis; expression pattern;
 KW DNA fingerprinting; nosocomial infection; microbiological assay;
 DE bacterial contamination; genome mapping; bioremediation.
 XX Homo sapiens.
 OS W02004067765-A2.
 PN 12-AUG-2004.
 XX 29-JAN-2004; 2004WO-US002720.
 PF 29-JAN-2003; 2003US-0443811P.
 XX (KECK-) KECK GRADUATE INST.
 XX Van Ness J, Galas DJ, Van Ness LK;
 XX WPI; 2004-581010/56.
 XX Identifying nucleic acid sample source, useful for identifying bacterial
 PT strains involved in nosocomial infections, comprises treating the nucleic
 PT acid sample with components comprising a nicking agent under nicking
 PT conditions.
 XX Example 3; Page 105-219; 238pp; English.

The invention relates to a method of treating a nucleic acid sample with
 CC components under nicking conditions, where the components comprise a
 CC nicking agent, and the conditions cause the nicking agent to nick the
 CC nucleic acid sample to thus produce a family of initiating
 CC oligonucleotide fragments, and subjecting one or more members of the
 CC family of initiating oligonucleotide fragments to a characterization
 CC process to thus provide results. The method is useful for creating an
 CC assay panel of diagnostic oligonucleotides that can identify any organism
 CC or individual. The method is useful for characterizing other DNA
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.
 CC The method, kit or composition is useful for identifying the source
 CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,
 CC non-human animal or human. The method is particularly useful for rapidly
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,
 CC subspecies, and especially strains or individuals of the subspecies. It
 CC is especially useful for identifying different bacterial strains involved
 CC in e.g., nosocomial infections. Furthermore, the method is useful for
 CC diagnosing bacterial infections. Furthermore, the method is useful for
 CC bacterial content and/or contamination in the environment, monitoring
 CC food for bacterial contamination, monitoring manufacturing processes for
 CC bacterial contamination, monitoring quality assurance/quality control of
 CC laboratory tests involving microbiological assays, tracing bacterial
 CC contamination and/or outbreaks of bacterial infections, genome mapping,
 CC monitoring bioremediation sites, and for monitoring agricultural sites
 CC for test crops, bacteria and recombinant molecules. Sequences ADR3581-
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI
 CC restriction site and used in the method of the invention.

Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;
 Query Match 43.0%; Score 8.6; DB 1; Length 9;
 Best Local Similarity 88.9%; Pred. No. 2.5e+02;
 Matches 8; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 8 CAGTCTCTT 16
 |||||:|
 Db 9 CAGTCTSTT 1

RESULT 36
AAV05484
ID AAV05484 standard; DNA; 10 BP.
AC AAV05484;
XX
DT 01-MAY-1998 (first entry)
XX
DE BsmAI restriction recognition site.
XX
KW Amplification; nucleic acid sequence; SDA; recognition site;
KW strand displacement amplification; restriction endonuclease;
KW alpha-boronated deoxynucleoside triphosphate; BsaI;
KW hemimodified restriction site; ds.
XX
OS Synthetic.
XX
EN US5702926-A.
XX
XX 30-DEC-1997.
XX
XX 22-AUG-1996; 96US-00701270.
XX
XX 22-AUG-1996; 96US-00701270.
XX (BECT) BECTON DICKINSON CO.
XX Walker GT, Fraiser MS;
XX WPI; 1998-076416/07.
XX
XX Strand displacement amplification of nucleic acids - using alpha-
XX boronated deoxy:nucleoside tri:phosphate to create nickable restriction
XX site.
XX
XX Disclosure; Col 6; 7pp; English.
XX
XX A novel method for amplifying a target nucleic acid sequence by strand
XX displacement amplification (SDA) comprises, amplifying the target
XX sequence in an SDA reaction in which an alpha-boronated deoxynucleoside
XX triphosphate is incorporated into a double stranded recognition site for
XX a restriction endonuclease, e.g. the present sequence. This produces a
XX hemimodified restriction site that is nicked by the restriction
XX endonuclease during the SDA reaction. Most alpha-boronated dNTP will
XX mimic a corresponding alpha-thiolated dNTP in essentially all respects as
XX regards SDA, though amplification efficiency is reduced in SDA reactions
XX optimised for alpha-thiolated dNTP
XX
SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 3 GTCTCCAGTC 12
Db 1 GTCTCCAATC 10
RESULT 37
AAZ78224/C
ID AAZ78224 standard; DNA; 10 BP.
XX
XX AAZ78224;
AC
XX 10-APR-2000 (first entry)
XX
XX Human dendritic cell SAGE tag, SEQ ID NO:652.
XX
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW APC; monocyte-derived dendritic cell; differential gene expression;

KW immunostimulatory cofactor; costimulatory factor; CTU;
XX cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
OS Homo sapiens.
XX
XX WO9965924-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013800.
XX
XX 19-JUN-1998; 98US-0089833P.
XX 19-JUN-1998; 98US-0089844P.
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089878P.
XX 19-JUN-1998; 98US-008991P.
XX 19-JUN-1998; 98US-008992P.
XX 19-JUN-1998; 98US-008993P.
XX 19-JUN-1998; 98US-008994P.
XX 19-JUN-1998; 98US-008997P.
XX 19-JUN-1998; 98US-008999P.
XX 19-JUN-1998; 98US-009000P.
XX 19-JUN-1998; 98US-009003P.
XX 19-JUN-1998; 98US-009003P.
XX 19-JUN-1998; 98US-009004P.
XX 19-JUN-1998; 98US-009004P.
XX 19-JUN-1998; 98US-009004P.
XX 19-JUN-1998; 98US-009004P.
XX 19-JUN-1998; 98US-009004P.
XX 19-JUN-1998; 98US-009004P.
XX 19-JUN-1998; 98US-009007P.
XX 19-JUN-1998; 98US-009007P.
XX 19-JUN-1998; 98US-009007P.
XX 19-JUN-1998; 98US-009007P.
XX 19-JUN-1998; 98US-009008P.
XX 08-DEC-1998; 98US-0111715P.
XX (GENZ) GENZYME CORP.
XX (ROBE/) ROBERTS B.L.
XX (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX WPI; 2000-106077/09.
XX
XX Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
XX Claim 1; Page 84; 130pp; English.
XX
XX Sequences AAZ77573-279709 represent SAGE (serial analysis of gene
XX expression) tags used to identify mRNA transcripts encoding
XX immunostimulatory cofactor proteins which are preferentially or
XX differentially expressed in monocyte-derived dendritic cells compared
XX with monocytes. Some of the transcripts correspond to known genes or ESTs
XX (expressed sequence tags) which were previously unknown to be
XX preferentially or differentially expressed in dendritic cells, while
XX other transcripts correspond to novel genes. Antigen-presenting cell
XX (APC)-associated costimulatory factors play an important role in the
XX activation of the cytotoxic immune response, particularly against tumour
XX cells. Tumour antigen presentation via the MHC (major histocompatibility
XX complex) and subsequent recognition by T-cell receptors is alone
XX insufficient to activate a robust cytotoxic immune response that can lyse
XX the tumour cells, immunostimulatory cofactors also being required for
XX efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
XX sequences identified using the SAGE tags have several potential uses.
XX They may be used in vaccines to induce an immune response, particularly
XX against a tumour antigen; to modulate the genotype of an APC; to screen
XX for agents that modulate expression of differentially expressed genes in

CC an APC; and as hybridisation probes/amplification primers for the
 CC diagnosis, prognosis and monitoring of diseases related to abnormal
 CC expression of these genes. Detection of the dendritic cell differentially
 CC expressed genes, or of their encoded proteins, can be used to identify
 CC cells as belonging to the monocyte lineage. Cells containing these genes
 CC can be used in active immunotherapy (or to stimulate production of a
 CC population of antigen-specific effector cells) and vectors containing
 CC them are used in gene therapy. Co-administration of tumour antigens and
 CC APC-associated costimulatory factors ensures adequate antigen
 CC presentation to endogenous APCs and upregulates the APCs for the
 CC presentation of co-stimulatory signals, migration to T cell-rich sites,
 CC secretion of T cell growth factors and secretion of chemokines for
 CC recruitment of immune effector cells
 XX
 SQ Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 2 TGTCTCCAGT 11
 Db ||| ||||| ||
 10 TGGCTCCAGT 1

RESULT 38

AAZ82947/c
 ID AAZ82947 standard; DNA; 10 BP.

XX AC AAZ82947;

XX DT 07-APR-2000 (first entry)

XX DE Metastatic breast tumour cell upregulated transcript tag #2181.

XX DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.

XX OS Homo sapiens.

XX PN WO9965928-A2.

XX PD 23-DEC-1999.

XX PF 18-JUN-1999; 99WO-US013647.

XX PR 19-JUN-1998; 98US-0089853P.

XX PR 19-JUN-1998; 98US-0089997P.

XX PR 19-JUN-1998; 98US-0090039P.

XX PR 19-JUN-1998; 98US-0090040P.

XX PR 19-JUN-1998; 98US-0090041P.

XX PA (GENZ) GENZYME CORP.

XX PA (ROBE/) ROBERTS B L.

XX PA (SHAN/) SHANKARA S.

XX PI Roberts BL, Shankara S;

XX WPI; 2000-106079/09.

XX DR Isolated polynucleotides differentially expressed between metastatic and

XX PT non-metastatic breast cancer cells, useful for diagnosis, prevention and

XX PT treatment of cancer.

XX PS Claim 1; Page 118; 219pp; English.

XX CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts

XX CC that are preferentially transcribed in the metastatic breast tumour

XX CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942

XX CC to AAZ86677 represent tags corresponding to distinct transcripts that are

XX CC preferentially transcribed in the primary or non-metastatic breast tumour

XX CC tissue (i.e. are downregulated in metastatic breast tumour cells). These

CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX

SQ Sequence 10 BP; 3 A; 2 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCT 13
 Db ||||| ||
 10 TCTCCAGGCT 1

RESULT 39

AAZ83008

ID AAZ83008 standard; DNA; 10 BP.

XX AC AAZ83008;

XX DT 07-APR-2000 (first entry)

XX DE Metastatic breast tumour cell upregulated transcript tag #2242.

XX DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;

KW non-metastatic breast tumour tissue; gene therapy; anticancer;

KW antimetastatic; vaccine; diagnosis; ss.

XX OS Homo sapiens.

XX PN WO9965928-A2.

XX PD 23-DEC-1999.

XX PF 18-JUN-1999; 99WO-US013647.

XX PR 19-JUN-1998; 98US-0089853P.

XX PR 19-JUN-1998; 98US-0089997P.

XX PR 19-JUN-1998; 98US-0090039P.

XX PR 19-JUN-1998; 98US-0090040P.

XX PR 19-JUN-1998; 98US-0090041P.

XX PA (GENZ) GENZYME CORP.

XX PA (ROBE/) ROBERTS B L.

XX PA (SHAN/) SHANKARA S.

XX PI Roberts BL, Shankara S;

XX WPI; 2000-106079/09.

XX DR Isolated polynucleotides differentially expressed between metastatic and

XX PT non-metastatic breast cancer cells, useful for diagnosis, prevention and

XX PT treatment of cancer.

XX PS Claim 1; Page 119; 219pp; English.

XX CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts

XX CC that are preferentially transcribed in the metastatic breast tumour

XX CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942

XX CC to AAZ86677 represent tags corresponding to distinct transcripts that are

CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX
 SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 6 TCCAGTCTCT 15
 Db 1 TCCAGGCTCT 10
 RESULT 40
 AAZ86119/c
 ID AAZ86119 standard; DNA; 10 BP.
 XX AC
 XX AAZ86119;
 XX 07-APR-2000 (first entry)
 XX Metastatic breast tumour cell downregulated transcript tag #5353.
 XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.
 XX Homo sapiens.
 OS
 XX WO9965928-A2.
 XX 23-DEC-1999.
 XX 18-JUN-1999; 99WO-US013647.
 XX 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX Roberts BL, Shankara S;
 XX WPI; 2000-106079/09.
 XX Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX Claim 1; Page 200; 219pp; English.
 PS
 XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour

CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
 CC to AAZ8677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX
 SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 5 CTCAGTCTCT 14
 Db 10 CTCAGTCTCT 1
 RESULT 41
 AAZ804430/c
 ID AAZ804430 standard; DNA; 10 BP.
 XX AC
 XX AAZ804430;
 XX 07-SEP-2001 (first entry)
 XX Human DAXX DNA primer-extension oligonucleotide #17.
 XX Death-associated protein 6; DAXX; polymorphism; haplotype pair; human;
 KW immune disorder; autoimmune disease; population diversity; ss;
 KW paternity testing; anthropological lineage; forensic application;
 KW primer-extension oligonucleotide.
 XX Homo sapiens.
 OS
 XX WO200125245-A2.
 XX 12-APR-2001.
 XX 05-OCT-2000; 2000WO-US027487.
 XX 06-OCT-1999; 99US-0157909P.
 PR (GENA-) GENAISSANCE PHARM INC.
 XX Chew A, Choi JY, Denton RR, Nandabalan K, Stephens JC;
 XX WPI; 2001-308220/32.
 XX New human death-associated protein 6 (DAXX) gene variants comprising 19
 PT polymorphic sites useful in studying the effect of variation on the
 PT biological activity of DAXX and in developing drugs targeting the
 PT protein.
 XX Disclosure; Page 20; 97pp; English.
 PS
 XX Sequences AAZ04414-AAZ04451 represent primer-extension oligonucleotides
 CC specific for a DNA encoding human death-associated protein 6 (DAXX). This
 CC DNA may comprise one or more polymorphisms at specific nucleotide
 CC positions to form one of nineteen possible polymorphic variants.

CC Associations between a trait and a genotype or a haplotype of the DAXX
CC gene can be identified by comparing the frequency of the genotype or
CC haplotype in a population exhibiting the trait with that of a reference
CC population. A higher frequency in the trait population indicates an
CC association. Methods involving genotyping or haplotyping of the DAXX gene
CC of an individual can lead to prediction of haplotype pairs for the DAXX
CC gene of related individuals, and may be useful in studying the expression
CC and biological function of DAXX, as well as in developing drugs targeting
CC this protein. Polymorphic variants of DAXX are useful in studying the
CC effect of the variation on the biological activity of DAXX as well as on
CC the binding affinity of candidate drugs targeting DAXX for the treatment
CC of autoimmune diseases and other immune disorders. Polymorphism is also
CC useful for studying population diversity, anthropological lineage,
CC paternity testing, forensic applications, and for identifying
CC associations between the DAXX genetic variation and a trait such as level
CC of drug response or susceptibility to disease. DAXX proteins may be used
CC to measure binding affinities of one or more candidate drugs targeting
CC the DAXX protein

XX
SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 CAGTCTCTTC 17
Db | ||||| |||
10 CGGTCTCTTC 1

RESULT 42
AAF38748/c
ID AAF38748 standard; DNA; 10 BP.

AC AAF38748;
XX
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5487.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.

XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX (UYJO) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 196; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention

XX
SQ Sequence 10 BP; 5 A; 1 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 TCTCTCGTT 20
Db | |||| |
10 TCTCTCGTT 1

RESULT 43
AAF42997
ID AAF42997 standard; DNA; 10 BP.

AC AAF42997;
XX
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11136.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.

XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX (UYJO) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

XX Example; Page 347; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention

XX Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCTCTTCGTT 20
 |||||
 Db 1 TCTCTTCGTT 10

RESULT 44

AAFP38731/c
 ID AAF38731 standard; DNA; 10 BP.

XX AAF38731;

XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5470.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UWJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.

XX Example; Page 195; 419pp; English.

XX

CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention

XX Sequence 10 BP; 7 A; 1 C; 2 G; 0 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCTCTTCGTT 20
 |||||
 Db 10 TCTCTTCGTT 1

RESULT 45

AAFP33728/c

ID AAF33728 standard; DNA; 10 BP.

XX AAF33728;

XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:467.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UWJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.

XX PS Claim 1; Page 391; 419pp; English.

XX CC The present invention describes an isolated DNA molecule comprising a

CC coding sequence of a yeast gene selected from a group of 745 NORF (not

CC previously assigned open reading frame; or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also

CC described are: (1) a method (M1) of using NORF genes to affect the cell

CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log

CC phase, S phase and G2/M; (2) a method (M2) for screening candidate

CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression

CC varies as in M1, where a test substance which modifies the expression of

CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for

CC identifying human genes which are involved in cell cycle progression

CC comprising contacting human DNA with a probe which comprises at least 10

CC contiguous nucleotides of a NORF gene whose expression varies as in M1;

CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC monitoring expression in the yeast cell of at least 1 NORF gene whose

CC expression is affected by the class of drugs. The NORF genes may be used

CC to study, monitor and affect phases of the cell cycle, the differentially

CC expressed genes may be used as markers of phases of the cell cycle. The

CC methods may be used to identify candidate drugs which affect the cell

CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064

CC represent SAGE tags used in the exemplification of the present invention.

CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE

CC method, in the exemplification of the present invention

XX SQ Sequence 10 BP; 5 A; 0 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 38;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 CAGTCTCTTC 17

DB || || || || || || ||

10 CATCTCTTC 1

RESULT 46

AAF34179

ID AAF34179 standard; DNA; 10 BP.

XX AC AAF34179;

XX DT 23-MAR-2001 (first entry)

XX DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:918.

XX KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;

KW nor previously assigned open reading frame; nonannotated ORF; SAGE;

KW serial analysis of gene expression; antifungal; tag; identification;

XX linker; PCR primer; ds.

XX OS Saccharomyces cerevisiae.

XX PN WO200077214-A2.

XX PD 21-DEC-2000.

XX PF 14-JUN-2000; 2000WO-US016223.

XX PR 16-JUN-1999; 99US-00335032.

XX PA (UYJO) UNIV JOHNS HOPKINS.

XX PI Velulescu V, Vogelstein B, Kinzler K;

XX DR WPI; 2001-061874/07.

XX

PT Yeast gene coding sequences comprising NORF genes with serial analysis of

PT gene expression (SAGE) tags, useful for studying, monitoring and

PT affecting phases of the cell cycle.

XX Example; Page 32; 419pp; English.

XX CC The present invention describes an isolated DNA molecule comprising a

CC coding sequence of a yeast gene selected from a group of 745 NORF (not

CC previously assigned open reading frame; or nonannotated ORF) genes

CC comprising a SAGE (serial analysis of gene expression) tag. Also

CC described are: (1) a method (M1) of using NORF genes to affect the cell

CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log

CC phase, S phase and G2/M; (2) a method (M2) for screening candidate

CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression

CC varies as in M1, where a test substance which modifies the expression of

CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for

CC identifying human genes which are involved in cell cycle progression

CC comprising contacting human DNA with a probe which comprises at least 10

CC contiguous nucleotides of a NORF gene whose expression varies as in M1;

CC and (4) a method (M4) for identifying a candidate drug as a member of a

CC class of drugs having a characteristic effect on gene expression in a

CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC monitoring expression in the yeast cell of at least 1 NORF gene whose

CC expression is affected by the class of drugs. The NORF genes may be used

CC to study, monitor and affect phases of the cell cycle, the differentially

CC expressed genes may be used as markers of phases of the cell cycle. The

CC methods may be used to identify candidate drugs which affect the cell

CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064

CC represent SAGE tags used in the exemplification of the present invention.

CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE

CC method, in the exemplification of the present invention

XX SQ Sequence 10 BP; 1 A; 3 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 42.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 38;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 6 TCCAGTCTCTCT 15

DB || || || || || || ||

1 TCTAGTCTCT 10

RESULT 47

AAF39592/c

ID AAF39592 standard; DNA; 10 BP.

XX AC AAF39592;

XX DT 23-MAR-2001 (first entry)

XX DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6331.

XX KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;

KW nor previously assigned open reading frame; nonannotated ORF; SAGE;

KW serial analysis of gene expression; antifungal; tag; identification;

XX linker; PCR primer; ds.

XX OS Saccharomyces cerevisiae.

XX PN WO200077214-A2.

XX PD 21-DEC-2000.

XX PF 14-JUN-2000; 2000WO-US016223.

XX PR 16-JUN-1999; 99US-00335032.

XX PA (UYJO) UNIV JOHNS HOPKINS.

XX PI Velulescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX Example; Page 226; 419pp; English.
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention.
XX Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
SQ Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 6 TCACGCTCT 15
DB 10 TCACGCTCT 1
RESULT 48
AAF38171
XX ID AAF38171 standard; DNA; 10 BP.
XX AC AAF38171;
XX XX
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4910.
DE DE
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX OS
XX WO200077214-A2.
XX PN
XX 21-DEC-2000.
XX PD
XX 14-JUN-2000; 2000WO-US016223.
XX PF
XX 16-JUN-1999; 99US-00335032.
XX PR
XX

(UYJO) UNIV JOHNS HOPKINS.
Velculescu V, Vogelstein B, Kinzler K;
WPI; 2001-061874/07.
Yeast gene coding sequences comprising NORF genes with serial analysis of
gene expression (SAGE) tags, useful for studying, monitoring and
affecting phases of the cell cycle.
Example; Page 175; 419pp; English.
The present invention describes an isolated DNA molecule comprising a
coding sequence of a yeast gene selected from a group of 745 NORF (not
previously assigned open reading frame; or nonannotated ORF) genes
comprising a SAGE (serial analysis of gene expression) tag. Also
described are: (1) a method (M1) of using NORF genes to affect the cell
cycle comprising administering a NORF gene whose expression varies by at
least 10% between any two phases of the cell cycle selected from log
phase, S phase and G2/M; (2) a method (M2) for screening candidate
antifungal drugs comprising: (a) contacting a test substance with a yeast
cell; and (b) monitoring expression of a NORF gene whose expression
varies as in M1, where a test substance which modifies the expression of
the yeast gene is a candidate antifungal drug; (3) a method (M3) for
identifying human genes which are involved in cell cycle progression
comprising contacting human DNA with a probe which comprises at least 10
contiguous nucleotides of a NORF gene whose expression varies as in M1;
and (4) a method (M4) for identifying a candidate drug as a member of a
class of drugs having a characteristic effect on gene expression in a
yeast cell comprising contacting a yeast cell with a candidate drug and
monitoring expression in the yeast cell of at least 1 NORF gene whose
expression is affected by the class of drugs. The NORF genes may be used
to study, monitor and affect phases of the cell cycle, the differentially
expressed genes may be used as markers of phases of the cell cycle. The
methods may be used to identify candidate drugs which affect the cell
cycle and for identification of antifungal drugs. AAF33268 to AAF44064
represent SAGE tags used in the exemplification of the present invention.
AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
method, in the exemplification of the present invention.
Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
SQ Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 4 TCTCCAGTCT 13
DB 1 TCCCCAGTCT 10
RESULT 49
AAF39425/c
XX ID AAF39425 standard; DNA; 10 BP.
XX AC AAF39425;
XX XX
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6164.
DE DE
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX OS
XX WO200077214-A2.
XX PN
XX 21-DEC-2000.
XX PD
XX 14-JUN-2000; 2000WO-US016223.
XX PF
XX 16-JUN-1999; 99US-00335032.
XX PR
XX

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XX 16-JUN-1999; 99US-00335032.
XX (UYJO ) UNIV JOHNS HOPKINS.
XX Velulescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX Example; Page 220; 419pp; English.
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064
XX represent SAGE tags used in the exemplification of the present invention.
XX method, in the exemplification of the present invention
XX Sequence 10 BP; 4 A; 3 C; 2 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 2 TGTCCTCAGT 11
Db ||||| |||||
10 TGTCCTCAGT 1
RESULT 50
AAF41789/c
ID AAF41789 standard; DNA; 10 BP.
XX AAF41789;
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8528.
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX WO200077214-A2.
XX
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PD 21-DEC-2000.
XX 14-JUN-2000; 2000WO-US016223.
XX 16-JUN-1999; 99US-00335032.
XX (UYJO ) UNIV JOHNS HOPKINS.
XX Velulescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX Example; Page 304; 419pp; English.
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064
XX represent SAGE tags used in the exemplification of the present invention.
XX method, in the exemplification of the present invention
XX Sequence 10 BP; 4 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 8 CAGTCTCTTC 17
Db ||||| |||||
10 CAGTCTCTTC 1
RESULT 51
AAF34632/c
ID AAF34632 standard; DNA; 10 BP.
XX AAF34632;
XX 23-MAR-2001 (first entry)
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1371.
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX
```

XX PN WO200077214-A2.
 XX PD 21-DEC-2000.
 XX PF 14-JUN-2000; 2000WO-US016223.
 XX PR 16-JUN-1999; 99US-00335032.
 XX PA (UYJO) UNIV JOHNS HOPKINS.
 XX PI Velculescu V, Vogelstein B, Kinzler K;
 XX DR WPI; 2001-061874/07.
 XX PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 PS Example; Page 49; 419pp; English.
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX Sequence 10 BP; 5 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 8 CACTCTCTTC 17
 Db |||||||
 10 CATTCTCTTC 1
 RESULT 52
 ID AAS98827/c
 XX AAS98827 standard; DNA; 10 BP.
 XX AC AAS98827;
 XX DT 26-MAR-2002 (first entry)
 XX DE Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #193.
 XX KW Colony stimulating factor 1 receptor; CSF1R; polymorphic variant;
 KW cytostatic; gene therapy; malignant histiocytosis; isogene;
 KW myeloid malignancy; inflammatory disorder; transgenic animal; haplotype;
 genotype; human; allele specific oligonucleotide; ASO; primer;
 primer extension; ss.
 OS Homo sapiens.
 PN WO200179225-A2.
 XX PD 25-OCT-2001.
 XX PF 12-APR-2001; 2001WO-US012044.
 XX PR 12-APR-2000; 2000US-0196411P.
 XX PA (GENA-) GENAISANCE PHARM INC.
 XX PI Chew A, Choi JY, Koshiy B;
 XX DR WPI; 2002-075058/10.
 XX PT Novel polymorphic variants of colony stimulating factor 1 receptor useful
 PT in studying expression and function of the protein, useful for screening
 PT candidate drugs to treat diseases e.g. inflammatory disorders.
 PS Claim 17; Page 17; 164pp; English.
 XX The invention describes a novel isolated polynucleotide (I) comprising a
 CC sequence which is a polymorphic variant (PV) of a reference sequence for
 CC colony stimulating factor 1 receptor (CSF1R) gene, found on The
 CC polypeptide are useful for improving the discovery and development of
 CC drugs for treating diseases associated with CSF1R activity, e.g.,
 CC malignant histiocytosis, myeloid malignancies, and inflammatory disorders
 CC and the haplotypes can be used to validate CSF1R as a candidate target
 CC for treating a specific condition or disease predicted to be associated
 CC with CSF1R activity. Genotyping the CSF1R gene of an individual can also
 CC be used in developing diagnostic tests and therapeutic treatments. (I) is
 CC useful in studying the expression and function of CSF1R, and in
 CC expressing CSF1R protein for use in screening for candidate drugs to
 CC treat diseases related to CSF1R activity and in studying the effect of
 CC the variation on the biological activity of CSF1R as well as on the
 CC binding affinity of candidate drugs targeting CSF1R. Antibodies are
 CC useful in a variety of diagnostic and prognostic formats and therapeutic
 CC methods. A transgenic animal is useful in studying expression of the
 CC CSF1R isogenes in vivo, for in vivo screening and testing of drugs
 CC targeted against CSF1R protein, and for testing the efficacy of
 CC therapeutic agents and compounds. Allele specific oligonucleotides (ASO)
 CC are useful as probes and primers, and for assaying a polymorphism in the
 CC target region. Without requiring any a priori knowledge of the phenotypic
 CC effect of any particular CSF1R or haplotype the invention provides a
 CC method for identifying lead compounds that are more likely to show
 CC efficacy in clinical trials. This sequence is a primer used to detect
 CC CSF1R gene polymorphisms by primer extension, described in the method of
 CC the invention
 XX Sequence 10 BP; 2 A; 3 C; 4 G; 1 T; 0 U; 0 Other;
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 3 GTCTCCAGTC 12
 Db |||||||
 10 GTCTCCAGGC 1
 RESULT 53
 ID ACC41713/c
 XX ACC41713 standard; DNA; 10 BP.
 XX AC ACC41713;
 XX DT 21-MAY-2003 (first entry)
 XX DE Zinc finger protein DNA-binding domain target sequence SEQ ID NO:260.

```

XX zinc finger domain; zinc finger; zinc finger binding domain; probe;
KW chimeric nucleic acid; library; PCR primer; ss.
XX
OS Synthetic.
XX
XX WO2003016571-A1.
XX
XX 27-FEB-2003.
XX
XX 17-AUG-2002; 2002WO-KR001560.
XX
XX 17-AUG-2001; 2001US-0313402P.
XX
XX 22-APR-2002; 2002US-0374355P.
XX
XX (TOOL-) TOOLGEN INC.
XX
XX Kim J, Bae K, Park K, Kwon Y, Ryu E, Hwang M;
PI WPI; 2003-268344/26.
XX
XX New library comprising polypeptides having zinc finger domains, useful
PT for producing chimeric nucleic acids.
XX
XX Claim 40; Page 105; 234pp; English.
XX
XX The present invention describes a library comprising polypeptides. Each
CC polypeptide comprises a first or second zinc finger domain. The domains
CC of each polypeptide are identical to a zinc finger domain from a
CC naturally occurring protein and either do not occur in the same naturally
CC occurring protein or occur in the same naturally occurring protein in a
CC different configuration than in the polypeptide. The domains vary among
CC polypeptides. Also described: (1) producing chimeric nucleic acids; (2)
CC generating an artificial zinc finger polypeptide that specifically binds
CC to a target DNA site; and (3) identifying a nucleic acid encoding a zinc
CC finger polypeptide that specifically recognises a target DNA site. The
CC library can be used for producing chimeric nucleic acids. ACC41551 to
CC ACC41758 and ABR40919 to ABR41015 represent nucleotide and amino acid
CC sequences given in the exemplification of the present invention
XX
XX Sequence 10 BP; 5 A; 2 C; 2 G; 1 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCTCTTCG 18
DB |||||
10 AGTCTCTTCG 1

RESULT 54
ADH69419
ID ADH69419 standard; DNA; 10 BP.
XX
XX ADH69419;
AC
XX
XX 25-MAR-2004 (first entry)
DT
XX
XX Exon 4/5 junction #2of Blue pigment gene.
DE
XX
XX Human; Blue pigment gene; retina specific gene; ds; cancer; infection;
KW cytostatic; GAWTS; genomic amplification with transcript sequencing;
KW RAWTS; RNA amplification with transcript sequencing; tRAWTS;
KW tissue specific RAWTS; RAWIT;
KW RNA amplification with in vitro translation; zoorAWTS; ASAWTS;
KW adjacent sequence amplification with transcript sequencing; PASA;
KW PCR amplification of specific alleles; PLATS;
KW promoter ligation with transcript sequencing.
XX
XX Homo sapiens.
OS
XX US2003143553-A1.
PN

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XX 31-JUL-2003.
XX
XX 07-MAR-2002; 2002US-00094507.
XX
XX 28-JAN-1988; 88US-00149312.
XX
XX 24-JUL-1989; 89US-00385013.
XX
XX 12-NOV-1993; 93US-00151461.
XX
XX 27-DEC-1994; 94US-00398555.
XX
XX 22-FEB-2000; 2000US-00510177.
XX
XX (SOMM/) SOMMER S S.
XX
XX Sommer SS;
PI
XX
XX WPI; 2003-730802/69.
XX
XX Amplifying a sequence of interest present within a nucleic acid molecule
PT for monitoring the progression of cancer by obtaining a sample of the
PT nucleic acid molecule and contacting the sample with an RNA polymerase.
XX
XX Disclosure; Fig 1B; 70pp; English.
XX
XX The invention relates to amplifying a sequence of interest present within
CC a nucleic acid molecule comprising: obtaining a sample of the nucleic
CC acid molecule that contains the sequence of interest; if the nucleic acid
CC is a single-stranded RNA molecule, treating the sample so as to prepare a
CC sample containing DNA molecule that contains a sequence complementary to
CC the sequence of interest; treating the sample to obtain a further sample;
CC contacting the further sample under hybridisation conditions with one
CC oligonucleotide primer that includes at least a promoter and a nucleic
CC acid present within the nucleic acid molecule, where the primer sequence
CC is located adjacent to, and 5' of, the sequence of interest, so that the
CC oligonucleotide primer hybridises with the single-stranded DNA molecule;
CC treating the resulting sample containing the single stranded DNA molecule;
CC to which the oligonucleotide primer is hybridised from step (4) with a
CC polymerase under polymerizing conditions so that a DNA extension product
CC of the oligonucleotide primer is synthesised and contains the sequence of
CC interest; treating the sample from step (5) so as to separate the DNA
CC extension product from the single-stranded DNA molecule on which it was
CC synthesised; contacting the resulting sample from step (6) containing the
CC sequence complementary to the sequence of interest under hybridisation
CC conditions, with one oligonucleotide primer; treating the sample
CC containing the single-stranded DNA molecule to which the oligonucleotide
CC primer is hybridised from step (7) with a polymerase so as to synthesise
CC a further DNA extension product; repeating steps (7)-(9), as desired;
CC contacting the sample from step (10) with an RNA polymerase that
CC initiates polymerization from the promoter present, under polymerising
CC conditions, so as to obtain multiple RNA transcripts of each DNA
CC extension product that contains the sequence complementary to the
CC sequence of interest. The promoter is a phage promoter, which is T7, T3
CC or SP6 promoter. The method (and its modifications detailed in the
CC specification are known as GAWTS (genomic amplification with transcript
CC sequencing), RAWTS (RNA amplification with transcript sequencing),
CC tRAWTS (tissue specific RAWTS), RAWIT (RNA amplification with in vitro
CC translation), zoorAWTS (sequencing homologous genes across species)
CC ASAWTS (adjacent sequence amplification with transcript sequencing), PASA
CC (PCR amplification of specific alleles) and PLATS (promoter ligation with
CC transcript sequencing). The method is useful for amplifying a sequence of
CC interest present within a nucleic acid molecule for monitoring the
CC progression of cancer or the efficiency of treatment of cancer or for
CC diagnosing and subtyping infectious agents. The present sequence is a
CC human retina specific blue pigment gene exon 4/5 junction sequence
CC analysed by the method of the invention.
XX
XX Sequence 10 BP; 1 A; 4 C; 1 G; 4 T; 0 U; 0 Other;
SQ
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TTGTCTCCAG 10
||| |||||

```

Db 1 TTCTCTCAG 10

RESULT 55
ADP47134/c
ID ADP47134 standard; DNA; 10 BP.
XX
AC ADP47134;
XX
XX 09-SEP-2004 (first entry)
XX
XX Human phospholipase A2-specific mAb heavy chain DNA sequence #14.
XX
XX human; monoclonal antibody; phospholipase A2; PLA2;
XX inflammatory disorder; degenerative disorder;
XX joint inflammatory reaction; skin inflammatory reaction;
XX blood vessels inflammatory reaction; arthritis; psoriasis; asthma;
XX Alzheimer's disease; atherosclerosis; restenosis; heavy chain; ds.
XX
OS Homo sapiens.
XX
XX WO2004050850-A2.
XX
XX 17-JUN-2004.
XX
XX 02-DEC-2003; 2003WO-US038234.
XX
XX 02-DEC-2002; 2002US-0430724P.
XX
XX (ABGE-) ABGENIX INC.
XX (LEXI-) LEXICON GENETICS INC.
XX
XX Landes GM, Haak-Frendscho M, Chen L, Lee YR, Liang ML, Feng X;
XX Jia X, Nocerini MR;
XX WPI; 2004-461119/43.
XX
XX New human monoclonal antibody that binds to phospholipase A2 (PLA2),
XX useful for treating inflammatory conditions, e.g. arthritis, psoriasis,
XX asthma, Alzheimer's disease, atherosclerosis, or restenosis.
XX
XX Example 5; SEQ ID NO 49; 128bp; English.
XX
XX The invention comprises a human monoclonal antibody that binds to
XX phospholipase A2 (PLA2). The monoclonal antibody of the invention is
XX useful in the preparation of a medicament for the treatment of
XX inflammatory and degenerative disorders stemming from inflammatory
XX reactions in the joints, skin, and blood vessels, arthritis, psoriasis,
XX asthma, Alzheimer's disease, atherosclerosis, and restenosis. The present
XX nucleic acid represents a human PLA2-specific monoclonal antibody heavy
XX chain DNA sequence.
XX
SQ Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 6 TCACGTCTCT 15
| | | | | | | | | | | | | | |
Db 10 TCACGTCTCT 1
| | | | | | | | | | | | | | |
RESULT 56
ADZ67944/c
ID ADZ67944 standard; DNA; 10 BP.
XX
AC ADZ67944;
XX
XX 14-JUL-2005 (first entry)
XX
XX NTRK1 gene polymorphic site 8 primer extension oligonucleotide.
XX

KW Neurotrophic tyrosine kinase receptor type 1; NTRK1; Alzheimers disease;
KW neurological disease; diagnosis; prognosis; primer; SNP detection;
KW haplotype mapping; ss.
XX
OS Homo sapiens.
XX
XX WO2005037204-A2.
XX
XX 28-APR-2005.
XX
XX 14-OCT-2004; 2004WO-US033689.
XX
XX 15-OCT-2003; 2003US-0511247P.
XX
XX (GENA-) GENAISSANCE PHARM.
XX
XX Aerssens J, Athanasios M, Brain C, Cohen N, Dain B, Denton RR;
XX Judson RS, Ozdemir V, Reed CR;
XX WPI; 2005-322749/33.
XX
XX Determining whether individual has age of onset marker I or marker II, by
XX determining whether individual has zero copies or copy of neurotrophic
XX tyrosine kinase, receptor, type 1 haplotypes involved in onset of
XX Alzheimer's disease.
XX
XX Disclosure; SEQ ID NO 42; 128pp; English.
XX
XX The inventors have discovered a set of 112 haplotypes in the human
XX neurotrophic tyrosine kinase, receptor, type 1 (NTRK1) gene AD267903 that
XX are associated with the age of onset of Alzheimer's disease (AD). They
XX have also discovered that the copy number of each of these NTRK1
XX haplotypes affects the age of onset of AD. If an individual has at least
XX one copy of any of the 112 specified haplotypes, that individual is
XX defined as having an 'age of onset marker I', and is more likely to have a
XX later age of onset of AD than an individual having zero copies of any of
XX the 112 haplotypes, such an individual being defined as 'age of onset
XX marker II'. Testing for the presence or absence, and copy number, of the
XX haplotypes is useful for predicting the age at which individuals who are
XX at increased risk of AD are likely to develop AD and to help confirm a
XX diagnosis of mild or minimal cognitive impairment (MDI) or AD. Such
XX knowledge will assist therapy and lifestyle decisions. The correlation of
XX certain NTRK1 haplotypes with age of AD onset indicates that variation in
XX the NTRK1 gene should be considered in the development and clinical
XX trials of drugs for treating MCI, AD and other neurodegenerative
XX disorders. This correlation also provides a basis for pursuing NTRK1 as a
XX target for drugs designed to treat cognitive disorders such as MDI, AD
XX and other neurological diseases or conditions. Information is provided
XX about the composition of each of 112 haplotypes, namely the location in
XX the NTRK1 gene of each of the polymorphic sites (PSs) and the identity of
XX the reference and variant allele at each PS. An individual's genotype for
XX the set of PSs is obtained by primer extension, allele-specific PCR,
XX nucleic acid amplification, hybridization, mismatch detection, enzymatic
XX nucleic acid cleavage or sequencing assay. The present sequence is that
XX of a reverse primer extension oligonucleotide for detecting PS8 in
XX haplotypes comprising preferred embodiments of age of onset markers I and
XX II.
SQ Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 38;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 5 CTCAGTCTC 14
| | | | | | | | | | | | | | |
Db 10 CTCAGTCTC 1
| | | | | | | | | | | | | | |
RESULT 57
AEA62012/c
ID AEA62012 standard; DNA; 10 BP.
XX

AC AEA62012;
 XX
 DT 11-AUG-2005 (first entry)
 XX
 DE NTRK1 gene polymorphic site 8 primer extension oligonucleotide.
 XX
 KW NTRK1 gene; neurotrophic tyrosine kinase, receptor, type 1;
 KW Alzheimer's disease; degeneration; neurological disease;
 KW haplotype mapping; prognosis; primer; ss; SNP detection.
 XX
 OS Homo sapiens.
 XX
 XX WO2005052180-A2.
 XX
 XX PD 09-JUN-2005.
 XX
 XX PF 22-NOV-2004; 2004WO-US038876.
 XX
 XX PR 24-NOV-2003; 2003US-0524636P.
 XX
 XX PA (GENA-) GENAISSANCE PHARM INC.
 XX
 XX Aerssens J, Athanasiou M, Brain C, Cohen N, Dain B, Denton RR;
 PI Judson RS, Ozdemir V, Reed CR;
 PI
 XX WPI; 2005-418015/42.
 DR
 XX
 XX Determining whether an individual has a progression marker I or
 PT progression marker II, useful for predicting an individual's progression
 PT of Alzheimer's disease, by determining whether the individual has any of
 PT the NTRK1 haplotypes.
 XX
 XX Claim 40; SEQ ID NO 53; 108pp; English.
 PS
 XX
 XX The present invention relates to genetic markers of the human
 CC neurotrophic tyrosine kinase, receptor, type 1 (NTRK1) gene AEA61960 that
 CC are associated with progression of Alzheimer's disease (AD). 12
 CC Polymorphic sites (PSs) have been discovered in the NTRK1 gene of
 CC Caucasian individuals with AD, and a set of 70 haplotypes having
 CC association with progression of AD have been identified. If an individual
 CC has 0 or 1 copy of any of haplotypes 1-41 and 67-70, or 0 copies of any
 CC of haplotypes 42-66, then that individual is defined as having a
 CC progression marker I and is more likely to exhibit a slower progression
 CC of AD than an individual having 2 copies of any of haplotypes 1-41 and 67
 CC -70, or at least 1 copy of any of haplotypes 42-66, such an individual
 CC may be identified that are in linkage disequilibrium with any of
 CC haplotypes 1-70, referred to as linked haplotypes and substitute
 CC haplotypes of any of haplotypes 1-70, in which one or more of the PSs in
 CC the original haplotype is substituted with another PS, where the allele
 CC at the substituted PS is in linkage disequilibrium with the allele at the
 CC substituting PS. The invention provides methods and kits for determining
 CC whether an individual has a progression marker I or a progression marker
 CC II. A method is also provided for predicting an individual's progression
 CC of AD. The individual is especially a Caucasian diagnosed as having a
 CC cognitive disorder. An individual's genotype for each PS may be obtained
 CC by primer extension, allele-specific PCR, nucleic acid amplification,
 CC hybridization, mismatch-detection, enzymatic nucleic acid cleavage or
 CC sequencing assay. The present sequence is a reverse primer extension
 CC oligonucleotide that can be used to detect the allele at PS8 of the NTRK1
 CC gene. The 3' terminus of the oligonucleotide is complementary to the
 CC nucleotide located immediately adjacent to the PS. The oligonucleotide is
 CC included in a claimed kit of the invention used to determine whether an
 CC individual has a progression marker I or progression marker II.
 XX
 XX Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
 SQ
 Query Match 42.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 38;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 5 CTCAGTCTC 14
 | | | | |

Db 10 CCCAGTCTC 1
 RESULT 58
 AAT09601
 ID AAT09601 standard; DNA; 8 BP.
 XX
 AC AAT09601;
 XX
 DT 25-MAR-2003 (revised)
 DT 25-JUN-1996 (first entry)
 XX
 DE 3'-primer used for characterisation of human biological samples.
 XX
 KW 3'-primer; human; protein coding region; PCR primer kit;
 KW characterisation; biological samples; PCR amplification; indexing;
 KW identification; cloning; analysis; genes; genome mapping;
 KW disease diagnosis; ss.
 XX
 OS Synthetic.
 XX
 XX WO9531574-A1.
 XX
 XX PD 23-NOV-1995.
 XX
 XX PF 12-MAY-1995; 95WO-US060632.
 XX
 XX PR 16-MAY-1994; 94US-00242887.
 XX
 XX PA (BGHM) BRIGHAM & WOMENS HOSPITAL.
 XX
 XX PI Lopeznieto CE, Nigam SK;
 XX
 XX WPI; 1996-010958/01.
 DR
 XX Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.
 PS Disclosure; Page 19; 72pp; English.
 XX
 CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
 CC 2003 to correct PI field.)
 XX
 XX Sequence 8 BP; 1 A; 3 C; 2 G; 2 T; 0 U; 0 Other;
 SQ
 Query Match 40.0%; Score 8; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2.8e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 3 GTCTCCAG 10
 | | | | |
 Db 1 GTCTCCAG 8
 RESULT 59
 AAT09436/C
 ID AAT09436 standard; DNA; 8 BP.
 XX
 AC AAT09436;
 XX
 DT 25-MAR-2003 (revised)
 DT 21-JUN-1996 (first entry)
 XX
 DE 5'-primer used for characterisation of human biological samples.
 XX

KW 5'-primer; human; protein coding region; PCR primer kit;
 KW characterisation; biological samples; PCR amplification; indexing;
 KW identification; cloning; analysis; genes; genome mapping;
 KW disease diagnosis; ss.
 XX Synthetic.
 OS
 PN WO9531574-A1.
 XX
 XX 23-NOV-1995.
 XX
 XX 12-MAY-1995; 95WO-US006032.
 XX
 XX 16-MAY-1994; 94US-00242887.
 XX
 XX (BGHM) BRIGHAM & WOMENS HOSPITAL.
 XX
 XX Lopeznielo CE, Nigam SK;
 PI
 XX WPI; 1996-010958/01.
 DR
 XX Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.
 PT
 XX Claim 5; Page 44; 72pp; English.
 PS
 XX The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
 CC 2003 to correct PI field.)
 XX
 XX Sequence 8 BP; 2 A; 2 C; 3 G; 1 T; 0 U; 0 Other;
 SQ
 Query Match 40.0%; Score 8; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2.8e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3 GTCTCCAG 10
 Db 8 GTCTCCAG 1
 RESULT 60
 AAA80951/c
 ID AAA80951 standard; DNA; 8 BP.
 XX
 XX AAA80951;
 XX
 XX 24-NOV-2000 (first entry)
 DT
 XX A. thaliana primer walking octamer SEQ ID NO: 264.
 DE
 XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.
 KW Arabidopsis thaliana.
 XX
 XX Arabidopsis thaliana.
 OS
 XX US6083695-A.
 XX
 XX 04-JUL-2000.
 PD
 XX 21-MAY-1997; 97US-00859954.
 XX
 XX 15-APR-1996; 97US-00859954.
 XX
 XX 15-APR-1996; 96US-00632782.
 XX
 XX (UYHO-) UNIV HOUSTON.
 PA (HARD/) HARDIN S H.
 XX

PI Hardin PE, Hardin SH, Homayouni R;
 DR WPI; 2000-474852/41.
 XX
 XX Sequencing an unknown DNA molecule for the polymerase chain reaction and
 PT other primer processes comprises primer walking of octamer
 PT oligonucleotides.
 XX
 XX Example 8; Col 157-158; 161pp; English.
 PS
 XX This invention describes a novel method for sequencing an unknown DNA
 CC molecule which comprises selecting a library primer from an octamer
 CC oligonucleotide library consisting of 48 8-bp sequences and corresponding
 CC complementary sequences, where the library primer is complementary to a
 CC known sequence adjacent to the unknown sequence or is complementary to a
 CC sequence in a known extension product. The method is useful for DNA
 CC nucleotide sequencing, in PCR, and in other processes which make use of
 CC primers. The octamers are used to identify coding sequences. Primer
 CC walking using the octamer libraries is advantageous over other sequencing
 CC methods because it does not require multiple cloning steps nor subsequent
 CC template preparations, and it is a directed and methodical approach.
 CC AAA80688-A81253 represent the octamer primers used in the primer walking
 CC method of the invention
 XX
 XX Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;
 SQ
 Query Match 40.0%; Score 8; DB 1; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2.8e+02;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 10 GTCTCTTC 17
 Db 8 GTCTCTTC 1
 RESULT 61
 AAA80762/c
 ID AAA80762 standard; DNA; 8 BP.
 XX
 XX AAA80762;
 XX
 XX 24-NOV-2000 (first entry)
 DT
 XX A. thaliana primer walking octamer SEQ ID NO: 75.
 DE
 XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.
 KW Arabidopsis thaliana.
 XX
 XX Arabidopsis thaliana.
 OS
 XX US6083695-A.
 XX
 XX 04-JUL-2000.
 PD
 XX 21-MAY-1997; 97US-00859954.
 XX
 XX 15-APR-1996; 96US-00632782.
 XX
 XX (UYHO-) UNIV HOUSTON.
 PA (HARD/) HARDIN S H.
 XX
 XX Hardin PE, Hardin SH, Homayouni R;
 PI
 XX WPI; 2000-474852/41.
 DR
 XX Sequencing an unknown DNA molecule for the polymerase chain reaction and
 PT other primer processes comprises primer walking of octamer
 PT oligonucleotides.
 XX
 XX Example 8; Col 63-64; 161pp; English.
 PS
 XX This invention describes a novel method for sequencing an unknown DNA
 CC molecule which comprises selecting a library primer from an octamer
 CC oligonucleotide library consisting of 48 8-bp sequences and corresponding

complementary sequences, where the library primer is complementary to a known sequence adjacent to the unknown sequence or is complementary to a sequence in a known extension product. The method is useful for DNA nucleotide sequencing, in PCR, and in other processes which make use of primers. The octamers are used to identify coding sequences. Primer walking using the octamer libraries is advantageous over other sequencing methods because it does not require multiple cloning steps nor subsequent template preparations, and it is a directed and methodical approach. AA80688-A81253 represent the octamer primers used in the primer walking method of the invention

XX SQ Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCC 8
| | | | | | | |
Db 8 TTGTCCTCC 1

RESULT 62

AA81188/c
ID AAA81188 standard; DNA; 8 BP.

XX AC AAA81188;

XX DT 24-NOV-2000 (first entry)

XX DE A. thaliana primer walking octamer SEQ ID NO: 501.

XX KW Primer walking; octamer; primer; DNA sequencing; PCR; ss.

XX OS Arabidopsis thaliana.

XX PN US6083695-A.

XX PD 04-JUL-2000.

XX PF 21-MAY-1997; 97US-00859954.

XX PR 15-APR-1996; 96US-00632782.

XX PA (UYHO-) UNIV HOUSTON.

XX PA (HARD/) HARDIN S H.

XX PI Hardin PE, Hardin SH, Homayouni R;

XX DR WPI; 2000-474852/41.

XX PT Sequencing an unknown DNA molecule for the polymerase chain reaction and other primer processes comprises primer walking of octamer oligonucleotides.

XX PS Claim 1; Col 277-278; 161pp; English.

XX CC This invention describes a novel method for sequencing an unknown DNA molecule which comprises selecting a library primer from an octamer oligonucleotide library consisting of 48 8-bp sequences and corresponding complementary sequences, where the library primer is complementary to a known sequence adjacent to the unknown sequence or is complementary to a sequence in a known extension product. The method is useful for DNA nucleotide sequencing, in PCR, and in other processes which make use of primers. The octamers are used to identify coding sequences. Primer walking using the octamer libraries is advantageous over other sequencing methods because it does not require multiple cloning steps nor subsequent template preparations, and it is a directed and methodical approach. AA80688-A81253 represent the octamer primers used in the primer walking method of the invention

XX SQ Sequence 8 BP; 3 A; 1 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.8e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TTCCAGT 11
| | | | | | | |
Db 8 TTCCAGT 1

RESULT 63

AAQ88288
ID AAQ88288 standard; DNA; 10 BP.

XX AC AAQ88288;

XX DT 27-AUG-2003 (revised)

XX DT 12-DEC-1995 (first entry)

XX DE 5'-target sequence 2 for detection of fruit species by PCR.

XX KW Polymerase chain reaction amplification; fruit juice; fruit pulp; species detection; apple; orange; grapefruit; RAPD technique; ss.

XX OS Citrus.

XX PN FR2711143-A1.

XX PD 21-APR-1995.

XX PF 13-OCT-1994; 94FR-00012235.

XX PR 13-OCT-1993; 93GB-00021113.

XX PA (UKAG-) UK MIN AGRIC FISHERIES & FOOD.

XX PI Lindsey K, Twell D;

XX DR WPI; 1995-157154/21.

XX PT Identifying species, variety etc. of fruits by PCR amplification - then comparing products with standards, also new test kits, primers and hybridisation probes, partic. to detect fraudulent use in food prodn.

XX PS Claim 7; Page 17; 20pp; French.

XX CC Primers have been identified which give useful results for identification of genus, species or variety of fruits (see AQ88293-Q88298); amplification profiles are established using several of the primers, which are complementary to regions (see AQ88287-Q88292) at the 5'-end of the target sequences which are amplified. Using the primers it was possible to distinguish between e.g. different varieties of Navel oranges and also between "red" apples and "Granny Smith" apples. (Updated on 27-AUG-2003 to correct OS field.)

XX SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12
| | | | | | | |
Db 2 CTCGAGTC 9

RESULT 64

AAQ88294/c
ID AAQ88294 standard; DNA; 10 BP.

XX AC AAQ88294;

XX DT 12-DEC-1995 (first entry)

DE Primer sequence 8 for detection of fruit species by PCR.
 XX
 KW Polymerase chain reaction amplification; fruit juice; fruit pulp;
 KW species detection; apple; orange; grapefruit; RAPD technique; ss.
 XX
 OS Synthetic.
 XX
 PN FR2711143-A1.
 XX
 XX 21-APR-1995.
 PD
 XX 13-OCT-1994; 94PR-00012235.
 XX
 XX 13-OCT-1993; 93GB-00021113.
 PR
 XX (UKAG-) UK MIN AGRIC FISHERIES & FOOD.
 PA
 XX Lindsey K, Twell D;
 PI
 XX WPI; 1995-157154/21.
 DR
 XX Identifying species, variety etc. of fruits by PCR amplification - then
 PT comparing products with standards, also new test kits, primers and
 PT hybridisation probes, partic. to detect fraudulent use in food prodn.
 PT
 XX Claim 8; Page 17; 20pp; French.
 PS
 XX Primers have been identified which give useful results for identification
 CC of genus, species or variety of fruits (see AAQ88293-Q88298);
 CC amplification profiles are established using several of the primers,
 CC which are complementary to regions (see AAQ88287-Q88292) at the 5'-end of
 CC the target sequences which are amplified. Using the primers it was
 CC possible to distinguish between e.g. different varieties of Navel oranges
 CC and also between "red" apples and "Granny Smith" apples
 CC
 XX Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;
 SQ
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 CTCGAGTC 12
 DB |||||
 9 CTCGAGTC 2
 RESULT 65
 AAV50258
 ID AAV50258 standard; DNA; 10 BP.
 XX
 AC AAV50258;
 XX
 XX 21-OCT-1998 (first entry)
 DT
 XX Yeast tag for additional NORF chromosome 4 tag position 381712.
 DE
 XX Yeast; Saccharomyces cerevisiae; transcriptome; cell cycle; regulation;
 KW eukaryotic cell; antifungal; SAGE tag; gene expression;
 KW serial analysis of gene expression; probe; ss.
 KW
 XX Saccharomyces cerevisiae.
 OS Synthetic.
 OS
 XX WO9832847-A2.
 PN
 XX 30-JUL-1998.
 XX
 PD
 XX 22-JAN-1998; 98WO-US001216.
 PF
 XX 23-JAN-1997; 97US-0035917P.
 PR
 XX (UYJO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
 PA
 XX

PI Velculescu VE, Vogelstein B, Kinzler KW;
 XX WPI; 1998-427943/36.
 XX
 XX Yeast transcriptome - useful for modulating eukaryotic cell, for
 PT screening antifungal agents, and for identifying genes in cell cycle
 PT progression.
 PT
 XX Claim 1; Page 26; 44pp; English.
 PS
 XX Yeast transcriptome is encoded by a DNA molecule comprising a yeast gene
 CC involved in cell cycle progression selected from the group of
 CC nonannotated ORF (NORF) genes. SAGE (serial analysis gene expression)
 CC tags for highly expressed genes and NORF genes are given in AAV50051 to
 CC AAV50345. The present invention describes: (1) a method of using yeast
 CC genes to modulate the cell cycle which comprises administering to a cell
 CC an isolated DNA molecule comprising a yeast gene which is involved in
 CC cell cycle progression selected from differentially expressed genes (SAGE
 CC tags given in AAV50051 to AAV50345); (2) a method for screening candidate
 CC antifungal drugs which comprises contacting a test substance with a yeast
 CC cell and monitoring expression of a yeast gene which is involved in cell
 CC cycle progression; (3) a method of identifying human genes which are
 CC involved in cell cycle progression which comprises hybridizing a probe
 CC comprising at least 10 contiguous nucleotides of a yeast gene which is
 CC differentially expressed between at least 2 phases selected from the log
 CC phase, the S phase and the G2/M phase; and (4) a probe for ascertaining
 CC the phase in the cell cycle, where the probe comprises at least 14
 CC contiguous nucleotides of a NORF gene (SAGE tags given in AAV50051 to
 CC AAV50345), or as an array of probes on a solid support
 CC
 XX Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
 SQ
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 4 TCTCCAGT 11
 DB |||||
 1 TCTCCAGT 8
 RESULT 66
 AAZ08343/C
 ID AAZ08343 standard; DNA; 10 BP.
 XX
 AC AAZ08343;
 XX
 XX 13-OCT-1999 (first entry)
 DT
 XX Nilaparvata lugens Stal. rice PCR primer sequence #9.
 DE
 XX Nilaparvata lugens Stal; rice; detection; resistance; PCR marker; bph-2;
 KW PCR primer; ss.
 KW
 XX Synthetic.
 OS Nilaparvata lugens.
 OS
 XX JP11206376-A.
 PN
 XX 03-AUG-1999.
 PD
 XX 22-JAN-1998; 98JP-00010845.
 PF
 XX 22-JAN-1998; 98JP-00010845.
 PR
 XX (AICH-) AICHI KEN PREFECTURE.
 PA
 XX WPI; 1999-486354/41.
 DR
 XX Detection of resistance to Nilaparvata lugens Stal. rice - using
 PT amplification techniques.
 PT
 XX Example; Page 11; 15pp; Japanese.
 PS

XX A method has been developed for the detection of resistance to
CC Nilaparvata lugens Stal. rice. The method comprises: (1) amplification of
CC a DNA fragment by PCR using a PCR marker and detection of the resistance,
CC in which a DNA fragment being specifically amplified in a species having
CC a gene (bph-2) resistant to Nilaparvata lugens Stal. using a genome DNA
CC of rice as a template and 1.3 Kbp in total with a base sequence shown by
CC sequence 1 (AAZ08335), comprising 300 bases at 5'-terminal and sequence 2
CC (AAZ08336) comprising 290 bases at 3'-terminal, respectively; and (2) a
CC PCR marker comprising a sense primer of base numbers shown in sequence 3
CC (AAZ08337) and an antisense primer of base numbers shown in sequence 5
CC (AAZ08341). The present invention also describes a primer for PCR using
CC rice genome of sequences 9, 10 or 11 (AAZ08343 to AAZ08345), or a couple
CC of sense primer of sequences 3 or 7 (AAZ08341), respectively, for
CC detection of the resistance. The method is used for the simple detection
CC of resistance to Nilaparvata lugens Stal
XX
SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 3 GTCTCCAG 10
Db 10 GTCTCCAG 3
|||||||
RESULT 67
AAZ81566
ID AAZ81566 standard; DNA; 10 BP.
AC AAZ81566;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #800.
XX
KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 79; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942

CC to AAZ86577 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 2 A; 3 C; 2 G; 3 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 6 TCCAGTCT 13
Db 2 TCCAGTCT 9
|||||||
RESULT 68
AAZ86307/c
ID AAZ86307 standard; DNA; 10 BP.
XX
AC AAZ86307;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell downregulated transcript tag #5541.
XX
KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 205; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts

CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX
 SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 3 GTCTCCAG 10
 Db 8 GTCTCCAG 1

RESULT 69
 AA283592/c
 ID AA283592 standard; DNA; 10 BP.
 XX
 AC AA283592;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell upregulated transcript tag #2826.
 XX
 KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9965928-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX
 DR WPI; 2000-106079/09.
 XX
 XX Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 PS Claim 1; Page 134; 219pp; English.

XX
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX
 SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 4 TCTCCAGT 11
 Db 10 TCTCCAGT 3

RESULT 70
 AA285035
 ID AA285035 standard; DNA; 10 BP.
 XX
 AC AA285035;
 XX
 DT 07-APR-2000 (first entry)
 XX
 DE Metastatic breast tumour cell downregulated transcript tag #4259.
 XX
 KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO9965928-A2.
 XX
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99WO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 PI Roberts BL, Shankara S;
 XX
 DR WPI; 2000-106079/09.
 XX
 XX Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.

```

XX
PS Claim 1; Page 173; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC e.g. therapeutic genes (also ribozymes or antisense sequences), of
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
Db 3 TCTCCAGT 10
|||||||

RESULT 71
AAZ81791
ID AAZ81791 standard; DNA; 10 BP.
XX
AC AAZ81791;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #1025.
XX
KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and

```

```

PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
XX treatment of cancer.
XX
PS Claim 1; Page 86; 219pp; English.
XX
CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
CC to AAZ86677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC e.g. therapeutic genes (also ribozymes or antisense sequences), of
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 3 A; 4 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCACGTC 12
Db 2 CTCACGTC 9
|||||||

RESULT 72
AAZ83176/c
ID AAZ83176 standard; DNA; 10 BP.
XX
AC AAZ83176;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #2410.
XX
KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
PN WO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106079/09.
XX
PT

```

XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX
XX
XX
XX Claim 1; Page 124; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 7 CCAGTCTC 14
|||||||
Db 10 CCAGTCTC 3
RESULT 73
AA280874/C
ID AA280874 standard; DNA; 10 BP.
XX
XX AC AA280874;
XX
XX DT 07-APR-2000 (first entry)
XX
XX DE Metastatic breast tumour cell upregulated transcript tag #108.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX anti-metastatic; vaccine; diagnosis; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO9965928-A2.
XX
XX PD 23-DEC-1999.
XX
XX PF 18-JUN-1999; 99WO-US013647.
XX
XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089997P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;

XX WPI; 2000-106079/09.
XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX
XX Claim 1; Page 61; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 2 A; 4 C; 3 G; 1 T; 0 U; 0 Other;
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 3 GTCTCCAG 10
|||||||
Db 10 GTCTCCAG 3
RESULT 74
AAC74005
ID AAC74005 standard; cDNA; 10 BP.
XX
XX AC AAC74005;
XX
XX DT 02-FEB-2001 (first entry)
XX
XX DE Human dendritic cell cDNA base sequence oligonucleotide #92.
XX
XX Human; dendritic cell; monocyte; immune system; diagnosis; cancer;
XX autoimmune disease; tumour; ss.
XX
XX OS Homo sapiens.
XX
XX PN WO200060074-A1.
XX
XX PD 12-OCT-2000.
XX
XX PF 30-MAR-2000; 2000WO-JP002019.
XX
XX PR 01-APR-1999; 99JP-00095481.
XX
XX (NISC-) JAPAN SCI & TECHNOLOGY CORP.
XX
XX Hashimoto S, Matsushima K, Suzuki T;
XX WPI; 2000-619172/59.
XX
XX Groups of genes expressed in human dendritic cells at a greater or lesser
PT extent than in monocytes for investigation and diagnosis of autoimmune

PT disease and tumors.

XX Claim 1; Page 10; 95pp; Japanese.

XX The present invention describes a group of genes consisting of 100 genes

CC which are highly expressed in human dendritic cells; a group of genes

CC which are expressed at a higher frequency in human dendritic cells than

CC in human monocytes; and a group of genes which are expressed at lower

CC frequency in human dendritic cells than in human monocytes. Each group of

CC genes are characterized in that cDNAs of these genes respectively have

CC the base sequences of SEQ ID NO:1 to 100 (AAC73914 to AAC74013), SEQ ID

CC NO:101 to 200 (AAC74014 to AAC74113) and SEQ ID NO:201 to 300 (AAC74114

CC to AAC74213), each is continuous with the base sequence 5'-CATG-3'

CC located most closely to the poly-A region. The sequences can be used for

CC the investigation of the role and mechanism of the involvement of

CC dendritic cells in the immune system and for the study and diagnosis of

CC diseases in which dendritic cells play a significant role, e.g. cancers

CC and autoimmune diseases

XX SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 43;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TCTCCAGT 11

DB 3 TCTCCAGT 10

RESULT 75

AAA56168

ID AAA56168 standard; DNA; 10 BP.

XX AAA56168;

AC AAA56168;

DT 07-SEP-2000 (first entry)

XX Human monocyte gene Tag oligonucleotide sequence SEQ ID NO:62.

DE Human; monocyte; macrophage; GM-macrophage; M-macrophage; tag;

XX granulocyte-macrophage colony-stimulating factor; characterisation;

KW GM-CSF; identification; diagnosis; gene specificity; oncogenesis;

KW disease onset mechanism; genetic disease; drug development; ss.

XX Homo sapiens.

OS

XX WO200024892-A1.

PN

XX 04-MAY-2000.

PD

XX 28-OCT-1999; 99WO-JP005982.

PF

XX 28-OCT-1998; 98JP-00307532.

PR

XX (NISC-) JAPAN SCI & TECHNOLOGY CORP.

PA

XX Hashimoto S, Matsushima K, Suzuki T;

PI WPI; 2000-350734/30.

DR

XX Genes most frequently expressed in human monocytes and GM-macrophages and

XX M-macrophages studied and with cDNAs characterized, for study of gene

PT specificity, disease onset mechanism, drug development and diagnosis.

PT

XX Claim 1; Page 51; 138pp; Japanese.

PS

XX The present invention describes 100 human genes, which are expressed most

CC frequently in human monocytes. The cDNA of each gene has a sequence fully

CC defined in the specification, and lacking the CATG sequence located

CC adjacent to polyA region. Also described are: (1) an antibody

CC specifically for the protein encoded by any of the genes; (2)

CC oligonucleotides obtained from the cDNA sequences; (3) 380 human genes

CC

CC which are expressed most frequently in human macrophages, differentiated

CC from human monocytes by granulocyte-macrophage colony-stimulating factor,

CC the cDNA of each gene has a fully defined sequence, given in the

CC specification, lacking the base sequence CATG located most closely to the

CC poly A region; (4) an antibody specifically for the protein encoded by

CC any of the genes of (3); and (5) oligonucleotides obtained from the cDNA

CC sequences of (3). The genes and cDNAs, are used for the study of gene

CC specificity and disease onset mechanism e.g. oncogenesis, genetic

CC diseases, drug development and diagnosis. AAA56107 to AAA56586 represent

CC specifically claimed oligonucleotide tag sequences for human genes

CC expressed in monocytes and macrophages

XX SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 43;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TCTCCAGT 11

DB 3 TCTCCAGT 10

RESULT 76

AAA70756/c

ID AAA70756 standard; DNA; 10 BP.

XX AAA70756;

AC AAA70756;

XX 17-JAN-2001 (first entry)

DT

XX PCR primer #2 for B. pumilus strain B3 DNA amplification.

DE

XX PCR primer; amplification; Bacillus pumilus B3; CECT 5105; plant growth;

KW Bacillus licheniformis B12; CECT 5106; gibberellin; plant hormone;

KW woody plant; herbaceous plant; disease resistance; ss.

XX

XX Bacillus pumilus.

OS

XX WO200043497-A1.

PN

XX 27-JUL-2000.

PD

XX 18-JAN-2000; 2000WO-ES000017.

PF

XX 20-JAN-1999; 99ES-00000106.

PR

XX (UYSA-) UNIV SAN PABLO CEU.

PA

XX Gutierrez Manero J, Probanza Lobo A;

PI

XX WPI; 2000-499226/44.

DR

XX New strains of Bacillus, useful for promoting growth of herbaceous and

XX woody plants, produce gibberellin plant hormones.

PT

XX Disclosure; Page 15; 28pp; Spanish.

PS

XX The invention relates to the isolation of novel strains of bacteria

CC (Bacillus pumilus B3 (CECT 5105) and B. licheniformis B12 (CECT 5106))

CC which produce gibberellin plant hormones that regulate plant growth. The

CC plant growth hormones are produced at level of 0.0029-0.148 mg/l by B3

CC and at 0.0017-0.123 mg/l by B12, after 24 hour culture at 28 deg. C in

CC liquid medium. The new strains are used to treat cultured plants (both

CC woody and herbaceous) to increase their growth, vigour and disease

CC resistance. Primers AAA70755-A70762 were used to PCR amplify DNA from the

CC B. pumilus strain B3

XX SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 43;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

PT Altering protein/fatty acid composition of seeds, useful for producing
 PT e.g. soya bean or sesame seed with high protein/fatty acid content,
 PT comprises introducing antisense gene.
 XX
 PS Example 8; Page 8; 25pp; Chinese.
 XX
 CC The present invention describes a method for altering the protein/fatty
 CC acid composition of seeds. The method comprises: (1) cloning
 CC phosphoenolpyruvate carboxylase (PEP) or acetyl-CoA carboxylase (ACC)
 CC genes or their fragments; (2) constructing the corresponding antisense
 CC gene of anti-PEP or anti-ACC; and (3) introducing the antisense gene into
 CC the plant cell of a crop. The method is applicable in plant breeding to
 CC give oilseed crops with high oil or protein content like soya bean,
 CC sunflower, rapeseed, peanut and sesame. The produced crop plants have
 CC high yield of oil or protein. The present sequence represents an
 CC oligonucleotide which is used in the construction of an anti-PEP gene in
 CC an example from the present invention
 XX
 SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 5 CTCAGTC 12
 Db 9 CTCAGTC 2
 |||||
 |||||
 RESULT 80
 AAF69645/c
 ID AAF69645 standard; DNA; 10 BP.
 XX
 AC AAF69645;
 DT 18-APR-2001 (first entry)
 DE Human IL4Ralpha gene probe #285.
 XX Polymorphism; human; interleukin 4 receptor-alpha; IL4R-alpha;
 KW allergic disease; probe; ss.
 XX Homo sapiens.
 OS
 XX WO200104270-A1.
 PN
 XX 18-JAN-2001.
 PD
 XX 13-JUL-2000; 2000WO-US019094.
 PF
 XX 13-JUL-1999; 99US-0143435P.
 PR
 XX (GENA-) GENAISSANCE PHARM INC.
 PA
 XX Chew A, Denton RR, Duda A, Nandabalan K, Stephens JC;
 PI Windemuth AK;
 XX WPI; 2001-103078/11.
 DR
 XX New isolated polynucleotide useful for the identification of therapeutics
 PT in allergic diseases is new.
 PT Disclosure; Page 46; 188pp; English.
 PS
 XX The present invention relates to polymorphisms of the human interleukin 4
 CC receptor-alpha gene (IL4R-alpha; see AAF57718 for the reference
 CC sequence). Polynucleotides comprising polymorphic gene variants are
 CC useful for therapeutic purposes. For example, where a patient may benefit
 CC from expression of a particular IL4Ralpha protein isoform, an expression
 CC vector encoding the isoform may be administered to the patient. It may
 CC desirable to decrease or block expression of a particular IL4Ralpha
 CC isogene, which may be done by turning off by transforming a targeted
 CC organ, tissue or cell population with an expression vector that expresses

CC high levels of untranslatable mRNA for the isogene. Specific therapeutics
 CC identified by these methods may be useful for allergic diseases. The
 CC present sequence is a probe for human IL4R-alpha
 XX
 SQ Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 TGTCTCCA 9
 Db 8 TGTCTCCA 1
 |||||
 |||||
 RESULT 81
 AAF38187
 ID AAF38187 standard; DNA; 10 BP.
 XX
 AC AAF38187;
 DT 23-MAR-2001 (first entry)
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4926.
 XX
 XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 PF
 XX 14-JUN-2000; 2000WO-US016223.
 PR
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNIV JOHNS HOPKINS.
 PA
 XX Velculescu V, Vogelstein B, Kinzler K;
 PI WPI; 2001-061874/07.
 DR
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 PS Example; Page 175; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially

CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 4 TCTCCAGT 11
 |||||
 Db 1 TCTCCAGT 8

RESULT 82
 AAF39032
 ID AAF39032 standard; DNA; 10 BP.
 XX
 AC AAF39032;
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5771.
 XX

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.

OS Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.

PS Example; Page 206; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and

CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 SQ Sequence 10 BP; 3 A; 3 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 4 TCTCCAGT 11
 |||||
 Db 3 TCTCCAGT 10

RESULT 83
 AAF36782
 ID AAF36782 standard; DNA; 10 BP.

XX AAF36782;

AC AAF36782;
 DT 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3521.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.

PS Example; Page 125; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;

CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC method, in the exemplification of the present invention

XX
 SQ Sequence 10 BP; 1 A; 2 C; 1 G; 6 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 13 TCCTCGTT 20
 Db 1 TCCTCGTT 8
 |||||

RESULT 84
 AAF43826
 ID AAF43826 standard; DNA; 10 BP.
 AC AAF43826;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11965.
 XX
 KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000WO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velulescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 XX
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 377; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for

CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC method, in the exemplification of the present invention

XX
 SQ Sequence 10 BP; 0 A; 3 C; 1 G; 6 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GTCTCTTC 17
 Db 3 GTCTCTTC 10
 |||||

RESULT 85
 AAF41988/c
 ID AAF41988 standard; DNA; 10 BP.
 XX
 AC AAF41988;
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8727.
 XX
 KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX
 OS Saccharomyces cerevisiae.
 XX
 PN WO200077214-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 14-JUN-2000; 2000WO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 XX
 PI Velulescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 311; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC
 CC
 CC

SQ Sequence 10 BP; 2 A; 1 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCACTCTC 14
 Db 8 CCACTCTC 1

RESULT 86

AAF33475
 ID AAF33475 standard; DNA; 10 BP.

XX AAF33475;

DT 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:214.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.

XX Claim 1; Page 26; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC
 CC
 CC

SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
 Db 1 TCTCCAGT 8

RESULT 87

AAF41634

ID AAF41634 standard; DNA; 10 BP.

XX AAF41634;

XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8373.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

XX 21-DEC-2000.

XX 14-JUN-2000; 2000WO-US016223.

XX 16-JUN-1999; 99US-00335032.

XX (UYJO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.

XX Example; Page 299; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at

comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. CCF AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention

Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCC 8
Db 3 TTGTCCTCC 10

RESULT 88
AAS95346
ID AAS95346 standard; DNA; 10 BP.

XX AAS95346;

XX 14-FEB-2002 (first entry)

XX Human Histamine H2 receptor ASO primer extension PCR primer #6.

XX Human; histamine H2 receptor; HRR2; ss; PCR primer; polymorphic variant; haplotyping; genotyping; acid-peptic disorder; mammary cancer; gastric carcinoma; allele specific oligonucleotide; ASO; primer extension.

XX Homo sapiens.

XX WO200179220-A2.

XX 25-OCT-2001.

XX 12-APR-2001; 2001WO-US011941.

XX 12-APR-2000; 2000US-0196406P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Chew A, Choi JY, Koshi B;

XX WPI; 2002-055249/07.

XX New human histamine H2 receptor (HRR2) isogene polymorphic variants, useful in expressing HRR2 protein for use in screening for candidate drugs to treat diseases related to HRR2 activity.

XX Claim 17; Page 14; 62pp; English.

CC The invention relates to an isolated polynucleotide comprising a polymorphic variant of a reference sequence for human Histamine H2 receptor (HRR2) gene, its fragment or complement, and the polymorphic variant contains an HRR2 isogene defined by a haplotype listed in the specification. Also disclosed are methods for haplotyping and genotyping the HRR2 gene of an individual, a method for predicting a haplotype pair for the HRR2 gene of an individual, identifying an association between a trait and at least one haplotype or haplotype pair of HRR2 gene, allele specific oligonucleotides (ASO) for performing the haplotyping/genotyping, a recombinant nonhuman organisms transformed or transfected with the polymorphic variant, the protein expressed by the polymorphic variant, an antibody raised against the protein and screening for drugs targeting the polypeptide by contacting HRR2 polymorphic variant with a candidate agent and assaying for binding activity. The polymorphisms are useful for studying the biological function of HRR2 gene, as well as in identifying drugs targeting this protein for the treatment of disorders related to its abnormal expression or function. The polymorphic variants may be used in screening for compounds targeting CALM1 to treat a specific condition or disease predicted to be associated with HRR2 activity, in studying the effect of the variation on the biological activity of HRR2 as well as on the binding affinity of candidate drugs targeting HRR2 for the treatment of acid-peptic disorders of the gastrointestinal tract and also possibly human mammary cancer and gastric carcinoma. The polymorphism and haplotype data can also be used for validating whether HRR2 is a suitable drug target for drugs to treat acid-peptic disorders of the gastrointestinal tract, screening of such drugs and reducing bias in clinical trials of such drugs. The present sequence is the 3' terminus of an ASO primer extension PCR primer used to detect the polymorphisms of the invention

Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 43;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCACGTC 12
Db 1 CTCACGTC 8

RESULT 89

ABL60204

ID ABL60204 standard; DNA; 10 BP.

XX ABL60204;

XX 22-JUL-2002 (first entry)

XX Human MUC1 PCR primer SEQ ID NO 48.

XX Human; mucin 1; MUC1; transmembrane protein; SNP; cancer; cytostatic; single nucleotide polymorphism; haplotyping; genotyping; drug; antiinflammatory; PCR; primer; ss.

XX Homo sapiens.

XX WO200226765-A2.

XX 04-APR-2002.

XX 25-SEP-2001; 2001WO-US030151.

XX 28-SEP-2000; 2000US-0236113P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Chew A, Koshi B;

XX WPI; 2002-405042/43.

XX New genetic variants of mucin 1, Transmembrane gene, useful in studying expression and function of protein encoded by the gene and for screening

PT drugs to treat diseases e.g. cancer.
 XX
 PS Claim 16; Page 14; 75pp; English.
 XX
 CC The invention relates to a polynucleotide (ABL60158, ABL60159) encoding
 CC mucin 1/MUC1 (AB77476). Transmembrane isogene. The invention describes
 CC novel genetic variants of the MUC1 gene. The invention is useful for
 CC haplotyping/genotyping the MUC1 gene in an individual and identifying an
 CC association between a trait and at least one of the haplotypes or
 CC haplotype pairs of MUC1 gene. MUC1 is useful for studying the expression
 CC and function of MUC1 and expressing MUC1 protein for use in screening for
 CC candidate drugs to treat diseases related to MUC1 activity and in
 CC studying the effect of the variation on the biological activity of MUC1
 CC as well as on the binding affinity of candidate drugs targeting MUC1 for
 CC the treatment of e.g. cancer. MUC1 is further used by the pharmaceutical
 CC research scientist to validate MUC1 as a candidate target for and in
 CC design of clinical trials of candidate drugs for, treating a specific
 CC condition drugs or disease predicted to be associated with MUC1 activity.
 CC MUC1 antibodies are useful in a variety of diagnostic and prognostic
 CC formats and therapeutic methods. The present sequence is that of a PCR
 CC primer for detecting MUC1 polymorphisms, useful to the invention
 XX
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred.No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 2 TGCTCCCA 9
 |||||
 Db 3 TGCTCCCA 10
 RESULT 90
 AAD25917
 ID AAD25917 standard; DNA; 10 BP.
 XX
 AC AAD25917;
 XX
 DT 26-MAR-2002 (first entry)
 XX
 DE Human MC4R gene polymorphism detecting primer #2.
 XX
 KW Human; single nucleotide polymorphism; SNP; melanocortin 4-receptor;
 KW MC4R; haplotype; obesity; screening; allele-specific oligonucleotide;
 KW ASO; gene therapy; anorectic; primer; ss.
 XX
 OS Homo sapiens.
 XX
 FN WO200179222-A2.
 XX
 PD 25-OCT-2001.
 XX
 PF 12-APR-2001; 2001WO-US011943.
 XX
 PR 12-APR-2000; 2000US-0196677P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Bentivegna SC, Choi JY, Kazemi A, Lee HH, Nandabalan K, Parks KE;
 PI Sausker EA;
 XX
 DR WPI; 2002-082744/11.
 XX
 PT Novel polymorphic variants of melanocortin 4-receptor gene useful in
 PT studying expression and function of the protein, useful for screening
 PT candidate drugs to treat diseases related to the protein activity e.g.
 PT obesity.
 XX
 PS Claim 17; Page 13; 53pp; English.
 XX
 CC The invention relates to single nucleotide polymorphisms (SNP) in human
 CC melanocortin 4-receptor (MC4R) gene. MC4R gene haplotypes are useful for

CC improving the efficiency and reliability of several steps in the
 CC discovery and development of drugs for treating diseases associated with
 CC MC4R activity, e.g. obesity. MC4R gene is useful in studying the
 CC expression and function of MC4R and in expressing MC4R protein for use in
 CC screening for candidate drugs to treat diseases related to MC4R activity
 CC and in studying the effect of the variation on the biological activity of
 CC MC4R as well as on the binding affinity of candidate drugs targeting
 CC MC4R for the treatment of obesity. MC4R antibody is useful in a variety
 CC of diagnostic and prognostic formats and in therapeutic methods. Allele-
 CC specific oligonucleotide (ASO) is useful as probes and primers, and for
 CC assaying a polymorphism in MC4R gene. MC4R DNA is used in gene therapy.
 CC The present sequence is a primer used to detect polymorphism in human
 CC MC4R gene
 XX
 SQ Sequence 10 BP; 1 A; 2 C; 1 G; 6 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred.No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 9 AGTCTCTT 16
 |||||
 Db 2 AGTCTCTT 9
 RESULT 91
 AAS95397/c
 ID AAS95397 standard; DNA; 10 BP.
 XX
 AC AAS95397;
 XX
 DT 14-FEB-2002 (first entry)
 XX
 DE Human ICAM2 gene allele-specific oligonucleotide PCR primer #2.
 XX
 KW Human; intercellular adhesion molecule 2; ICAM2; haplotyping; ss;
 KW haplotype pair; single nucleotide polymorphism; genotyping; PCR primer;
 KW gene therapy; drug screening; anti-HIV; antiinflammatory; probe;
 KW human immunodeficiency virus; sequencing primer.
 XX
 OS Homo sapiens.
 XX
 FN WO200185918-A1.
 XX
 PD 15-NOV-2001.
 XX
 PF 07-MAY-2001; 2001WO-US014714.
 XX
 PR 05-MAY-2000; 2000US-0201946P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Chew A, Choi JY, Denton RR, Kliem SE, Lee HH, Nandabalan K;
 WPI; 2002-055590/07.
 DR
 XX
 PT Novel polynucleotide containing polymorphisms in intercellular adhesion
 PT molecule 2 gene, useful in developing drugs for treating human
 PT immunodeficiency virus infection and inflammatory diseases.
 XX
 PS Claim 18; Page 13; 81pp; English.
 XX
 CC The invention relates to single nucleotide polymorphisms in the gene
 CC encoding human intercellular adhesion molecule 2 (ICAM2). A method for
 CC haplotyping the ICAM2 gene in an individual comprises identifying the
 CC nucleotide at one or more polymorphic sites and determining whether one
 CC of the copies of the gene is defined by one of the ICAM2 haplotypes given
 CC in the specification or whether both copies are defined by a haplotype
 CC pair. This method is useful in genotyping, whereby all possible haplotype
 CC pairs can be assigned to specific genotypes. An association between a
 CC trait and a haplotype or haplotype pair of the ICAM2 gene can be
 CC identified by comparing the frequency of the haplotype or haplotype pair
 CC in a population exhibiting the trait with the frequency of the haplotype

CC or haplotype pair in a reference population, where a higher haplotype
 CC frequency in the trait population indicates the trait is associated with
 CC the haplotype or haplotype pair. ICAM2 and its corresponding DNA are used
 CC for studying the expression and function of ICAM2, for use in screening
 CC for candidate drugs to treat diseases related to ICAM2 activity, such as
 CC HIV infection and inflammatory diseases. The sequences are also useful
 CC as well as on the binding affinity of the biological activity of ICAM2.
 CC Sequences AAS95362-AAS95417 and AAS95419-AAS95442 represent allele-
 CC specific oligonucleotide probes, sequencing primers, PCR primers and cDNA
 CC encoding human ICAM2

XX SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCC 8
 Db 10 TTGTCTCC 3

RESULT 92
 ABV78460/C
 ID ABV78460 standard; cDNA; 10 BP.

XX AC ABV78460;

XX XX 29-NOV-2002 (first entry)

XX DE Human Th1 cell preferentially expressed EST SAGE tag, SEQ ID NO:171.

XX KW SAGE tag; serial analysis of gene expression; human; Th1 cell;
 KW activated T cell; T lymphocyte; immune response; expression pattern;
 KW preferential expression; immune disorder; EST; expressed sequence tag;
 KW ss.

XX OS Homo sapiens.

XX XX JP2002186482-A.

XX PD 02-JUL-2002.

XX PF 19-DEC-2000; 2000JP-00385816.

XX PR 19-DEC-2000; 2000JP-00385816.

XX XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX XX WPI; 2002-594261/64.

XX PT Human activated Th1 and Th2 cell expression gene group, useful for the
 PT diagnosis and treatment of Th1 and Th2-related diseases.

XX PS Claim 19; Page 11; 60pp; Japanese.

XX CC The invention relates to SAGE (serial analysis of gene expression) tags
 CC representing groups of genes which are expressed in activated human Th1
 CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence
 CC of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif
 CC lying nearest to the polyA region of cDNAs derived from a variety of
 CC genes. These tags serve to uniquely identify each transcript and can thus
 CC be used to analyse the pattern of gene expression in particular cell
 CC types. The invention also relates to proteins encoded by the genes
 CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and
 CC inhibitors of the expression of groups of genes that are expressed in
 CC either or both the two cell types. Groups of genes expressed in Th1
 CC and/or Th2 cell types may be used for the diagnosis and treatment of Th1
 CC and Th2-related disorders. Sequences ABV78390-ABV78560 are SAGE tags
 CC representing 171 genes which are more highly expressed in Th1 cells
 CC compared with Th2 cells

SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 6 TCCAGTCT 13
 Db 8 TCCAGTCT 1

RESULT 93
 ABV78336
 ID ABV78336 standard; cDNA; 10 BP.

XX AC ABV78336;

XX XX 29-NOV-2002 (first entry)

XX DE Human ribosomal protein L23 SAGE tag, SEQ ID NO:47.

XX KW SAGE tag; serial analysis of gene expression; human; Th1 cell;
 KW activated T cell; T lymphocyte; immune response; expression pattern;
 KW immune disorder; ss.

XX OS Homo sapiens.

XX XX JP2002186482-A.

XX PD 02-JUL-2002.

XX PF 19-DEC-2000; 2000JP-00385816.

XX PR 19-DEC-2000; 2000JP-00385816.

XX XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX XX WPI; 2002-594261/64.

XX PT Human activated Th1 and Th2 cell expression gene group, useful for the
 PT diagnosis and treatment of Th1 and Th2-related diseases.

XX PS Claim 1; Page 8; 60pp; Japanese.

XX CC The invention relates to SAGE (serial analysis of gene expression) tags
 CC representing groups of genes which are expressed in activated human Th1
 CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence
 CC of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif
 CC lying nearest to the polyA region of cDNAs derived from a variety of
 CC genes. These tags serve to uniquely identify each transcript and can thus
 CC be used to analyse the pattern of gene expression in particular cell
 CC types. The invention also relates to proteins encoded by the genes
 CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and
 CC inhibitors of the expression of groups of genes that are expressed in
 CC either or both the two cell types. Groups of genes expressed in Th1
 CC and/or Th2 cell types may be used for the diagnosis and treatment of Th1
 CC and Th2-related disorders. Sequences ABV78290-ABV78339 are SAGE tags
 CC representing 50 genes which are most highly expressed in Th1 cells

XX SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
 Db 3 TCTCCAGT 10

RESULT 94
 ABK23747
 ID ABK23747 standard; DNA; 10 BP.

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XX AC ABK23747;
XX DT 09-APR-2002 (first entry)
XX DE Transcript tag DNA sequence #336 induced or suppressed by N-myc.
XX KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
XX KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
XX KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.
XX OS Homo sapiens.
XX PN WO200185941-A2.
XX PD 15-NOV-2001.
XX PF 11-MAY-2001; 2001WO-NL000361.
XX PR 11-MAY-2000; 2000EP-00201698.
XX PR 29-JUN-2000; 2000EP-00202284.
XX PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.
XX PI Versteeg R, Caron HN;
XX PS WPI; 2002-066603/09.
XX DR A new nucleic acid library of myc-dependent downstream genes capable of
XX PT supporting a neoplastic characteristic of cancer is useful to find new
XX PT therapies and diagnoses for cancer.
XX PS Disclosure; Page 58; 69pp; English.
XX CC The present invention relates to a nucleic acid library comprising myc-
XX CC dependent downstream genes or their functional fragments essentially
XX CC capable of supporting a neoplastic character of cancer such as growth,
XX CC invasion or spread. These myc target or tag sequences are identified by
XX CC SAGE (serial analysis of gene expression). The library is useful to find
XX CC new diagnoses and treatments for cancer. The invention is also useful to
XX CC enhance production of recombinant proteins in a production system with
XX CC high expression of endogenous or transfected myc oncogenes. ABK23412-
XX CC ABK23828 represent transcript tag DNA sequences that are activated or
XX CC repressed by N-myc in human neuroblastoma
XX SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
Db 3 TCTCCAGT 10

RESULT 95
ABK23710
ID ABK23710 standard; DNA; 10 BP.
AC ABK23710;
XX DT 09-APR-2002 (first entry)
XX DE Transcript tag DNA sequence #299 induced or suppressed by N-myc.
XX KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
XX KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
XX KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.
XX OS Homo sapiens.
XX PN WO200185941-A2.

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XX PD 15-NOV-2001.
XX PF 11-MAY-2001; 2001WO-NL000361.
XX PR 11-MAY-2000; 2000EP-00201698.
XX PR 29-JUN-2000; 2000EP-00202284.
XX PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.
XX PI Versteeg R, Caron HN;
XX PS WPI; 2002-066603/09.
XX DR A new nucleic acid library of myc-dependent downstream genes capable of
XX PT supporting a neoplastic characteristic of cancer is useful to find new
XX PT therapies and diagnoses for cancer.
XX PS Disclosure; Page 57; 69pp; English.
XX CC The present invention relates to a nucleic acid library comprising myc-
XX CC dependent downstream genes or their functional fragments essentially
XX CC capable of supporting a neoplastic character of cancer such as growth,
XX CC invasion or spread. These myc target or tag sequences are identified by
XX CC SAGE (serial analysis of gene expression). The library is useful to find
XX CC new diagnoses and treatments for cancer. The invention is also useful to
XX CC enhance production of recombinant proteins in a production system with
XX CC high expression of endogenous or transfected myc oncogenes. ABK23412-
XX CC ABK23828 represent transcript tag DNA sequences that are activated or
XX CC repressed by N-myc in human neuroblastoma
XX SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGTCTCT 15
Db 1 CAGTCTCT 8

RESULT 96
AAS97350
ID AAS97350 standard; DNA; 10 BP.
AC AAS97350;
XX DT 12-MAR-2002 (first entry)
XX DE Human CRYBB1 gene ASO primer extension PCR primer 3' end #9.
XX KW Human; crystallin beta B1; CRYBB1; chromosome 22q12.1; ophthalmological;
XX KW cataract; allele specific oligonucleotide; ASO; ss; haplotype;
XX KW genotyping; transgenic animal; PCR primer; primer extension.
XX OS Homo sapiens.
XX PN WO200185998-A1.
XX PD 15-NOV-2001.
XX PF 07-MAY-2001; 2001WO-US014715.
XX PR 05-MAY-2000; 2000US-0202253P.
XX PA (GENA-) GENAISSANCE PHARM INC.
XX PI Choi JY, Kazemi A, Kliehm SE, Koshy B, Rounds E;
XX PS WPI; 2002-062253/08.
XX DR Novel polymorphic variants of crystallin, beta B1 useful in studying
XX PT

```

PT expression and function of the protein, useful for screening candidate
 XX drugs to treat diseases e.g. cataract.

PS Claim 17; Page 13; 94pp; English.

XX The invention relates to an isolated polynucleotide comprising a sequence
 CC which is a polymorphic variant of a reference sequence for crystallin,
 CC beta B1 (CRYBB1, located on chromosome 22q12.1) gene or their fragment,
 CC where the polymorphic variant comprises a CRYBB1 isogene defined by a
 CC haplotype from haplotypes 1-16 as given in the specification. Also
 CC included are a transgenic non-human animal transformed or transfected
 CC with the polymorphic variant, a computer system for storing and analysing
 CC polymorphism data for CRYBB1 gene, a genome anthology for the CRYBB1 gene
 CC which comprises the defined CRYBB1 isogenes, methods of determining an
 CC individuals haplotype or genotype as well as methods of determining the
 CC association of a particular haplotype with a disease or trait and a
 CC composition comprising at least one genotyping oligonucleotide
 CC (especially allele-specific oligonucleotides (ASO)) for detecting a
 CC polymorphism in the CRYBB1. The isogenes or haplotypes are useful for
 CC improving the efficiency and reliability of several steps in the
 CC discovery and development of drugs for treating diseases associated with
 CC CRYBB1 activity, e.g. cataract. and can also be used by the
 CC pharmaceutical research scientist to validate CRYBB1 as a candidate
 CC target for, and in design of clinical trials of candidate drugs for,
 CC treating a specific condition drugs or disease predicted to be associated
 CC with CRYBB1 activity. The ASOs are useful as probes and primers, and for
 CC assaying a polymorphism in the target region. The present sequence is the
 CC allele specific 3' end of a PCR primer used in primer extension
 CC experiment to detect polymorphisms in CRYBB1

XX Sequence 10 BP; 0 A; 4 C; 2 G; 4 T; 0 U; 0 Other;

SQ Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCC 8
 |||||
 Db 1 TTGTCTCC 8

RESULT 97

ACA94446
 ID ACA94446 standard; DNA; 10 BP.

XX ACA94446;

XX 18-JUL-2003 (first entry)

XX DNA tag from human transcript elevated in adenomas/cancers #27.

XX Colorectal cancer; colorectal adenoma; ss; human; renal dipeptidase;
 KW macrophage inhibitory cytokine; MIC; RDP; faeces; blood;
 KW kidney proximal tubule.

XX Homo sapiens.

XX WO2003022863-A1.

XX 20-MAR-2003.

XX 09-SEP-2002; 2002WO-US028518.

XX 07-SEP-2001; 2001US-0317494P.

XX 30-MAY-2002; 2002US-0383805P.

XX (UYJO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.

XX Buckhaults P, Kinzler KW, Vogelstein B;

XX WPI; 2003-313220/30.

XX Detecting colorectal cancer in a subject, involves detecting macrophage

PT inhibitory cytokine or renal dipeptidase or their mRNA in feces or blood
 XX of the subject.

PS Disclosure; Page 25; 59pp; English.

XX The invention relates to detecting CC (colorectal cancer e.g. colorectal
 CC adenoma), comprising: (a) detecting macrophage inhibitory cytokine (MIC)
 CC or renal dipeptidase (RDP) in faeces or blood of a subject and comparing
 CC amount of MIC or RDP detected to that in normal subjects, where an
 CC elevated amount of MIC or RDP in the subject is an indicator of CC in
 CC subject; (b) isolating mRNA sample from faeces of a subject, detecting
 CC MIC or RDP mRNA in the mRNA sample, and comparing amount of MIC or RDP
 CC mRNA detected to that in normal subjects, where an elevated amount of MIC
 CC or RDP mRNA in the subject is an indicator of CC in subject; (c)
 CC isolating epithelial cells from blood of a subject, isolating an mRNA
 CC sample from faeces of a subject or epithelial cells, detecting MIC or RDP
 CC mRNA in the mRNA sample, and comparing the amount of MIC or RDP mRNA in
 CC the mRNA sample to amounts of MIC or RDP mRNA in normal subjects, where
 CC an elevated amount of MIC or RDP mRNA in the mRNA sample is an indicative
 CC of CC in the subject; (d) contacting blood or faeces of a subject, with
 CC an RDP substrate, detecting activity of RDP in the blood or faeces by
 CC detection of increased reaction product or decreased RDP substrate, and
 CC comparing the amount of activity of RDP in blood or faeces of the subject
 CC to that in normal subjects, where an elevated amount of activity of RDP
 CC in the blood or faeces of the subject is an indicator of CC in the
 CC subject; (e) administering to a subject an antibody which specifically
 CC binds to RDP or an inhibitor of RDP, where the antibody or inhibitor is
 CC labeled with a moiety which is detectable from outside of the subject and
 CC detecting the moiety in the subject from outside of the subject, where an
 CC area of localisation of the moiety within the subject but outside the
 CC proximal tubules of the kidney identifies CC; or (f) administering to a
 CC subject a substrate for RDP, the substrate being labeled with a
 CC detectable moiety, isolating faeces or blood from the subject, and
 CC detecting in the faeces or blood RDP reaction product or decreased
 CC substrate in the faeces or blood indicates CC in the subject. The methods
 CC are useful for detecting colorectal cancer in a subject. The present
 CC sequence is a DNA tag derived from a human transcript whose expression is
 CC elevated in colorectal cancer or colorectal adenoma

SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
 |||||
 Db 3 TCTCCAGT 10

RESULT 98

ABT14242/c

ID ABT14242 standard; DNA; 10 BP.

XX ABT14242;

XX 20-FEB-2003 (first entry)

XX Nucleic acid PCR amplification method-related RAPD PCR primer #12.

XX Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
 KW RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.

XX Unidentified.

XX WO200281743-A2.

XX 17-OCT-2002.

XX 28-MAR-2002; 2002WO-GB001489.

XX 02-APR-2001; 2001GB-00008182.

XX PA (HAMI/) HAMILL B.
 XX PI Hamill B;
 XX WPI; 2003-075484/07.
 XX
 PT Amplification of nucleotide sequences from polynucleotides by chain
 PT extension of oligonucleotide primers, comprises 2 oligonucleotides in
 PT solution, 2 attached to supports and both share complementary sequences.
 XX
 PS Disclosure; Fig 17; 60pp; English.
 XX
 CC The invention comprises a method for the PCR amplification of nucleic
 CC acids. The method involves a set of primers, where two of the primers are
 CC in solution and at least two other primers are attached to a solid
 CC support. The method of the invention can be used for the analysis of a
 CC nucleic acid or a mixture of nucleic acids, including: single-stranded
 CC DNA molecules, double-stranded DNA molecules and mRNA molecules. The
 CC present DNA sequence represents a random amplified polymorphic DNA (RAPD)
 CC PCR primer of the invention
 XX
 SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 5 CTCGAGTC 12
 Db | | | | | | | |
 9 CTCGAGTC 2
 RESULT 99
 ID ADA00650 standard; DNA; 10 BP.
 XX
 AC ADA00650;
 XX
 DT 06-NOV-2003 (first entry)
 XX
 DE Oligonucleotide microchip associated probe #3.
 XX
 KW discrete porous entity; microchip; cross contamination;
 KW chemical communication; co-polymerisation; ss; probe.
 XX
 OS Synthetic.
 XX
 FH Key Location/Qualifiers
 FT modified_base 1 /*tag= a
 FT /mod_base= OTHER
 FT /not= "OTHER= Fluorescein"
 XX
 PN US2003036063-A1.
 XX
 PD 20-FEB-2003.
 XX
 PF 15-AUG-2001; 2001US-00930865.
 XX
 PR 15-AUG-2001; 2001US-00930865.
 XX
 PA (MIRZ/) MIRZABEKOV A.
 PA (TIMO/) TIMOFEEV E.
 PA (VASI/) VASILISKOV V.
 XX
 PI Mirzabekov A, Timofeev E, Vasiliskov V;
 XX
 DR WPI; 2003-605713/57.
 XX
 PT Making discrete porous entities containing synthetic and natural
 PT compounds, useful as biochips, involves contacting each molecule at
 PT individual positions on insert substrate with compound, and solidifying

PT the formed individual mixtures.
 XX
 PS Example 2; Fig 5; 11pp; English.
 XX
 CC The invention describes a method of making discrete porous entities that
 CC each contain a different molecule. The method comprises: positioning each
 CC different molecule at individual positions on an inert substrate;
 CC contacting each positioned molecule with compound to form individual
 CC mixtures; and solidifying the mixtures. The inventive method provides
 CC microchips that minimise any chance for cross contamination and chemical
 CC communication between entities. The contents of the entities do not mix
 CC with each other. It provides microchips having higher sensitivity and
 CC much faster kinetics of hybridisation. It facilitates the production of
 CC co-polymerised gel pads that can be as small as 3 x 3 microns. This
 CC sequence represents a associated with a oligonucleotide microchip
 CC prepared by photoinduced simultaneous co-polymerisation of 4 allyl-
 CC oligonucleotides.
 XX
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
 Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 6 TCCAGTCT 13
 Db | | | | | | | |
 2 TCCAGTCT 9
 RESULT 100
 ID ADL96158 standard; DNA; 10 BP.
 XX
 AC ADL96158;
 XX
 DT 20-MAY-2004 (first entry)
 XX
 DE CD15+ myeloid cell associated probe seqid 56.
 XX
 KW cytostatic; gene therapy; microarray; gene expression characteristic;
 KW haematopoietic cell; haematopoiesis; myeloid leukaemia; probe;
 KW CD15+ myeloid cell; ss.
 XX
 OS Homo sapiens.
 XX
 PN US2003165949-A1.
 XX
 PD 04-SEP-2003.
 XX
 PF 23-DEC-2002; 2002US-00329465.
 XX
 PR 27-DEC-2001; 2001US-0343826P.
 XX
 PA (WANG/) WANG S M.
 PA (LEES/) LEE S.
 PA (CHEN/) CHEN J.
 PA (ZHOU/) ZHOU G.
 PA (ROWL/) ROWLEY J D.
 XX
 PI Wang SM, Lee S, Chen J, Zhou G, Rowley JD;
 XX
 DR WPI; 2003-863699/80.
 XX
 PT New microarray for measuring gene expression characteristics of
 PT hematopoietic cells, useful for preparing a composition for diagnosing or
 PT treating myeloid leukemia.
 XX
 PS Claim 1; SEQ ID NO 56; 32pp; English.
 XX
 CC The invention describes a microarray for measuring gene expression
 CC characteristics of haematopoietic cells comprising at least 5
 CC polynucleotides having distinct sequences. Also described are: a method
 CC of diagnosing or treating an abnormality associated with haematopoiesis;

CC and diagnosing myeloid leukaemia in a patient. The microarray is useful
 CC for preparing a composition for diagnosing or treating myeloid leukaemia.
 CC This sequence represents a polynucleotide probe comprising a portion of
 CC an expressed gene isolated from a population of CD15+ myeloid cells and
 CC suitable for use in the microarray of the invention.

XX
 SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TCTCCAGT 11
 |||||
 DB 10 TCTCCAGT 3

RESULT 101
 ADI53195
 ID ADI53195 standard; DNA; 10 BP.

XX
 AC ADI53195;

XX
 DT 22-APR-2004 (first entry)

DE Human CD3E primer extension primer terminus #29.

XX Human; CD3 antigen epsilon subunit; CD3E; primer; ss; haplotype;
 KW genotype; primer extension.

XX Homo sapiens.

XX US2004018493-A1.

XX 29-JAN-2004.

XX 12-JUL-2002; 2002US-00193507.

XX 12-JUL-2002; 2002US-00193507.

XX (ANAS// ANASTASIO A E.

PA (KAZE// KAZEMI A.

PA (LACH// LACHOWICZ M.

PA (PABO// PABON V.

PA (SHAH// SHAH N.

XX Anastasio AE, Kazemi A, Lachowicz M, Pabon V, Shah N;

XX WPI; 2004-122016/12.

XX Haplotyping the CD3 antigen, epsilon subunit (CD3E) gene of an individual
 PT by identifying the phased sequence of nucleotides at polymorphic sites
 PT PS1-PS16 for at least one copy of the individual's CD3E gene.

XX Claim 22; SEQ ID NO 80; 59pp; English.

XX The invention relates to haplotyping the CD3 antigen, epsilon subunit
 CC (CD3E) gene of an individual comprising identifying the phased sequence
 CC of nucleotides at polymorphic sites PS1-PS16 for at least one copy of the
 CC individual's CD3E gene and assigning to the individual a CD3E haplotype
 CC or haplotype pair, given in the specification, that is consistent with
 CC the phased sequence. Also included are genotyping the CD3E gene of an
 CC individual, assigning a haplotype pair for the CD3E gene to an
 CC individual, identifying an association between a trait and at least one
 CC haplotype or haplotype pair of the CD3E gene, reducing the potential for
 CC bias in a clinical trial of a candidate drug for treating a disease or
 CC condition predicted to be associated with CD3E activity, an isolated CD3E
 CC polynucleotide, a recombinant nonhuman organism transformed or
 CC transfected with the isolated polynucleotide and expressing a CD3E
 CC protein, an isolated fragment of a CD3E isogene (comprising at least 50
 CC nucleotides in one of the regions of the CD3E gene (ADI53116) and one or
 CC more polymorphisms (P1-P16), where the selected polymorphism has the
 CC position given in the specification), screening for compounds targeting

CC the CD3E protein to treat a condition or disease predicted to be
 CC associated with CD3E activity, validating the CD3E protein as a candidate
 CC target for treating a medical condition predicted to be associated with
 CC CD3E activity, an isolated oligonucleotide designed to detect a
 CC polymorphism in the CD3E gene at polymorphic sites PS1-PS16, a kit for
 CC haplotyping or genotyping the CD3E gene of an individual and a genome
 CC anthology for the CD3 antigen, epsilon subunit (CD3E) gene which
 CC comprises two or more CD3E isogenes. The method is useful for haplotyping
 CC the CD3 antigen, epsilon subunit (CD3E) gene of an individual for
 CC screening for compounds targeting the CD3E protein to treat a condition
 CC or disease predicted to be associated with CD3E activity. The present
 CC sequence is a Human CD3E primer extension primer terminus.

XX
 SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 4 TCTCCAGT 11
 |||||
 DB 3 TCTCCAGT 10

RESULT 102

ADK69774/c

ID ADK69774 standard; DNA; 10 BP.

XX
 AC ADK69774;

XX 06-MAY-2004 (first entry)

DE Type 2 helper T (Th2) cell protein-related PCR primer SeqID5.

XX Type 2 helper T cell; Th2 cell; Type 1 helper T cell; Th1 cell;
 KW antiallergic; allergy; mouse; murine; ss; PCR; primer; ss.

XX Mus musculus.

XX JP2004016084-A.

XX 22-JAN-2004.

XX 14-JUN-2002; 2002JP-00175001.

XX 14-JUN-2002; 2002JP-00175001.

XX (MITU) MITSUBISHI CHEM CORP.

XX WPI; 2004-113867/12.

XX Novel protein expressing type 2 helper T cell, useful for controlling
 PT immediate and delayed type allergy.

XX Example 1; SEQ ID NO 5; 35pp; Japanese.

XX This invention relates to a novel protein which is expressed in Type 2
 CC helper T (Th2) cells, but not in Type 1 helper T (Th1) cells. The
 CC invention may be useful for the production of compounds with an
 CC antiallergic activity. The invention is useful for controlling immediate
 CC and delayed type allergy. In addition, it may also be useful for
 CC determining/analysing the risk of allergy developing in a subject. The
 CC present sequence is that of a PCR primer which was used in the
 CC exemplification of the invention.

XX Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 40.0%; Score 8; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CTCACGTC 12
 |||||


```

XX 20-MAR-2003; 2003US-0456735P.
XX (DAND ) DANA FARBBER CANCER INST INC.
XX Polyak K, Porter D, Allinen M;
XX WPI; 2004-728732/71.
XX Diagnosing breast cancer comprises determining expression levels of a
PT gene selected from those differentially expressed in normal or cancerous
PT cells of a breast tissue sample including interleukin 1, thrombospondin 1
PT and cystatin C.
XX Example 6; SEQ ID NO 1536; 149pp; English.
XX The invention relates to a method of diagnosis (M1) comprising: (a)
CC providing a test sample of breast tissue; (b) determining the level of
CC expression in the test sample of a gene (e.g. interleukin-8, superoxide
CC dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
CC specification, and (c) if the gene is expressed in the test sample at a
CC lower level than in a control normal breast tissue sample, diagnosing the
CC test sample as containing cancer cells. The method is used for diagnosing
CC breast cancer. This sequence corresponds to an oligonucleotide primer
CC used in the method of the invention.
XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
XX Query Match 40.0%; Score 8; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 43;
XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 TCTCCAGT 11
DB 3 TCTCCAGT 10
|||||
|||||

RESULT 106
ADZ85566
ID ADZ85566 standard; DNA; 10 BP.
XX AC
XX ADZ85566;
XX 28-JUL-2005 (first entry)
XX Human BACE455 cDNA PCR primer #7.
XX Beta-secretase 455; beta-secretase; BACE455; neurodegenerative disease;
XX Alzheimer's disease; Down syndrome; glaucoma; Parkinsons disease;
XX motor neurone disease; cerebrovascular ischemia; dementia;
XX neuroprotective; nootropic; ophthalmological; antiparkinsonian;
XX cerebroprotective; vasotropic; CNS-gen.; muscular-gen.; PCR; ss; primer.
XX Homo sapiens.
XX WO2005045021-A1.
XX 19-MAY-2005.
XX 05-NOV-2004; 2004WO-IB003897.
XX 06-NOV-2003; 2003US-0517401P.
XX (EXON-) EXONHIT THERAPEUTICS SA.
XX Desire L;
XX WPI; 2005-366843/37.
XX New beta-secretase 455 polypeptide, useful for detecting presence of
PT neurodegenerative disease or associated disorder, for assessing response
PT of subject to treatment of neuro-degenerative disease or associated
PT disorder.
XX 20-MAR-2003; 2003US-0456735P.
XX (DAND ) DANA FARBBER CANCER INST INC.
XX Polyak K, Porter D, Allinen M;
XX WPI; 2004-728732/71.
XX Diagnosing breast cancer comprises determining expression levels of a
PT gene selected from those differentially expressed in normal or cancerous
PT cells of a breast tissue sample including interleukin 1, thrombospondin 1
PT and cystatin C.
XX Example 6; SEQ ID NO 1536; 149pp; English.
XX The invention relates to a method of diagnosis (M1) comprising: (a)
CC providing a test sample of breast tissue; (b) determining the level of
CC expression in the test sample of a gene (e.g. interleukin-8, superoxide
CC dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
CC specification, and (c) if the gene is expressed in the test sample at a
CC lower level than in a control normal breast tissue sample, diagnosing the
CC test sample as containing cancer cells. The method is used for diagnosing
CC breast cancer. This sequence corresponds to an oligonucleotide primer
CC used in the method of the invention.
XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
XX Query Match 40.0%; Score 8; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 43;
XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 4 TCTCCAGT 11
DB 3 TCTCCAGT 10
|||||
|||||

RESULT 107
AAZ86307
ID AAZ86307 standard; DNA; 10 BP.
XX AC
XX AAZ86307;
XX 07-APR-2000 (first entry)
XX Metastatic breast tumour cell downregulated transcript tag #5541.
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX Homo sapiens.
XX WO9965928-A2.
XX 23-DEC-1999.
XX 18-JUN-1999; 99WO-US013647.
XX 19-JUN-1998; 98US-0089853P.

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XX PN FR2711143-A1.
 XX PD 21-APR-1995.
 XX PF 13-OCT-1994; 94FR-00012235.
 XX PR 13-OCT-1993; 93GB-00021113.
 XX PA (UKAG-) UK MIN AGRIC FISHERIES & FOOD.
 XX PI Lindsey K, Twell D;
 XX WI; 1995-157154/21.
 XX Identifying species, variety etc. of fruits by PCR amplification - then
 PT comparing products with standards, also new test kits, primers and
 PT hybridisation probes, partic. to detect fraudulent use in food prodn.
 XX PS Claim 7; Page 17; 20pp; French.
 XX CC Primers have been identified which give useful results for identification
 CC of genus, species or variety of fruits (see AAQ88293-Q88298);
 CC amplification profiles are established using several of the primers,
 CC which are complementary to regions (see AAQ88287-Q88292) at the 5'-end of
 CC the target sequences which are amplified. Using the primers it was
 CC possible to distinguish between e.g. different varieties of Navel oranges
 CC and also between "red" apples and "Granny Smith" apples.
 CC AUG-2003 to correct OS field.)
 XX CC
 XX SQ Sequence 10 BP; 2 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
 Query Match 21.0%; Score 4.2; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.3e+02;
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 OY 3 GTCTCCAGT 11
 |||||
 DB 9 GACTGGAGT 1
 RESULT 114
 AAQ88294
 ID AAQ88294 standard; DNA; 10 BP.
 XX AC AAQ88294;
 XX DT 12-DEC-1995 (first entry)
 XX DE Primer sequence 8 for detection of fruit species by PCR.
 XX KW Polymerase chain reaction amplification; fruit juice; fruit pulp;
 KW species detection; apple; orange; grapefruit; RAPD technique; ss.
 XX OS Synthetic.
 XX PN FR2711143-A1.
 XX PD 21-APR-1995.
 XX PF 13-OCT-1994; 94FR-00012235.
 XX PR 13-OCT-1993; 93GB-00021113.
 XX PA (UKAG-) UK MIN AGRIC FISHERIES & FOOD.
 XX PI Lindsey K, Twell D;
 XX WI; 1995-157154/21.
 XX Identifying species, variety etc. of fruits by PCR amplification - then
 PT comparing products with standards, also new test kits, primers and
 PT hybridisation probes, partic. to detect fraudulent use in food prodn.

XX PS Claim 8; Page 17; 20pp; French.
 XX CC Primers have been identified which give useful results for identification
 CC of genus, species or variety of fruits (see AAQ88293-Q88298);
 CC amplification profiles are established using several of the primers,
 CC which are complementary to regions (see AAQ88287-Q88292) at the 5'-end of
 CC the target sequences which are amplified. Using the primers it was
 CC possible to distinguish between e.g. different varieties of Navel oranges
 CC and also between "red" apples and "Granny Smith" apples
 XX CC
 XX SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;
 Query Match 21.0%; Score 4.2; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.3e+02;
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 OY 3 GTCTCCAGT 11
 |||||
 DB 2 GACTGGAGT 10
 RESULT 115
 AAQ88343
 ID AAQ88343 standard; DNA; 10 BP.
 XX AC AAQ88343;
 XX DT 13-OCT-1999 (first entry)
 XX DE Nilaparvata lugens Stal. rice PCR primer sequence #9.
 XX KW Nilaparvata lugens Stal; rice; detection; resistance; PCR marker; bph-2;
 KW PCR primer; ss.
 XX OS Synthetic.
 XX PN Nilaparvata lugens.
 XX PN JP11206376-A.
 XX PD 03-AUG-1999.
 XX PF 22-JAN-1998; 98JP-00010845.
 XX PR 22-JAN-1998; 98JP-00010845.
 XX PA (AICH-) AICHI KEN PREPECTURE.
 XX DR WPI; 1999-486354/41.
 XX PT Detection of resistance to Nilaparvata lugens Stal. rice - using
 PT amplification techniques.
 XX PS Example; Page 11; 15pp; Japanese.
 XX CC A method has been developed for the detection of resistance to
 CC Nilaparvata lugens Stal. rice. The method comprises: (1) amplification of
 CC a DNA fragment by PCR using a PCR marker and detection of the resistance,
 CC in which a DNA fragment being specifically amplified in a species having
 CC a gene (bph-2) resistant to Nilaparvata lugens Stal. using a genome DNA
 CC of rice as a template and 1.3 Kbp in total with a base sequence shown by
 CC sequence 1 (AAQ88335), comprising 300 bases at 5'-terminal and sequence 2
 CC (AAQ88336) comprising 290 bases at 3'-terminal, respectively; and (2) a
 CC PCR marker comprising a sense primer of base numbers shown in sequence 3
 CC (AAQ88337) and an antisense primer of base numbers shown in sequence 5
 CC (AAQ88341). The present invention also describes a primer for PCR using
 CC rice genome of sequences 9, 10 or 11 (AAQ88343 to AAQ88345), or a couple
 CC of sense primer of sequences 3 or 7 (AAQ88341), respectively, for
 CC detection of the resistance. The method is used for the simple detection
 CC of resistance to Nilaparvata lugens Stal
 XX SQ Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;


```

Query Match      21.0%; Score 4.2; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. NO. 1.3e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy  4 TCTCCAGTC 12
    ||| |||
Db  2 TCTGGAGAC 10

RESULT 116
AAA70756
ID AAA70756 standard; DNA; 10 BP.
XX
AC AAA70756;
XX
DT 17-JAN-2001 (first entry)
XX
DE PCR primer #2 for B. pumilus strain B3 DNA amplification.
XX
KW PCR primer; amplification; Bacillus pumilus B3; CECT 5105; plant growth;
KW Bacillus licheniformis B12; CECT 5106; gibberellin; plant hormone;
KW woody plant; herbaceous plant; disease resistance; ss.
XX
OS Bacillus pumilus.
XX
FN WO200043497-A1.
XX
PD 27-JUL-2000.
XX
PF 18-JAN-2000; 2000WO-ES000017.
XX
PR 20-JAN-1999; 99ES-00000106.
XX
PA (UYSA-) UNIV SAN PABLO CEU.
XX
PI Guierrez Manero J, Probanza Lobo A;
XX
DR WPI; 2000-499226/44.
XX
PT New strains of Bacillus, useful for promoting growth of herbaceous and
PT woody plants, produce gibberellin plant hormones.
XX
PS Disclosure; Page 15; 28pp; Spanish.
XX
XX The invention relates to the isolation of novel strains of bacteria
CC (Bacillus pumilus B3 (CECT 5105) and B. licheniformis B12 (CECT 5106))
CC which produce gibberellin plant hormones that regulate plant growth. The
CC plant growth hormones are produced at level of 0.0029-0.148 mg/l by B3
CC and at 0.0017-0.123 mg/l by B12, after 24 hour culture at 28 deg. C in
CC liquid medium. The new strains are used to treat cultured plants (both
CC woody and herbaceous) to increase their growth, vigour and disease
CC resistance. Primers AAA70755-A70762 were used to PCR amplify DNA from the
CC B. pumilus strain B3
XX
SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match      21.0%; Score 4.2; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. NO. 1.3e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy  3 GTCTCCAGT 11
    ||| |||
Db  2 GACTGGAGT 10

RESULT 117
AAH41695
ID AAH41695 standard; DNA; 10 BP.
XX
AC AAH41695;
XX
DT 28-AUG-2001 (first entry)
XX
DE Nucleic acid PCR amplification method-related RAPD PCR primer #12.
XX
KW Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
KW RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.
XX
OS Unidentified.
XX
FN WO200281743-A2.
XX
PD 17-OCT-2002.
XX
PF 28-MAR-2002; 2002WO-GB001489.
XX
PR 02-APR-2001; 2001GB-00008182.

Anti-PEP gene construction related oligonucleotide S4.
XX
KW Phosphoenolpyruvate carboxylase; PEPCase; seed; acetyl-CoA carboxylase;
KW oilseed; PEP; plant breeding; soya bean; sunflower; rapeseed; peanut;
KW sesame; crop plant; protein content; fatty acid content; anti-PEP; ss.
XX
OS Synthetic.
XX
FN WO200134812-A1.
XX
PD 17-MAY-2001.
XX
PF 06-NOV-2000; 2000WO-CN000418.
XX
PR 09-NOV-1999; 99CN-00124511.
XX
PA (ZHEJ-) ZHEJIANG AGRIC SCI ACAD.
XX
PI Chen J, Lang C, Huang R, Hu Z, Liu Z;
XX
DR WPI; 2001-335934/35.
XX
PT Altering protein/fatty acid composition of seeds, useful for producing
PT e.g. soya bean or sesame seed with high protein/fatty acid content,
PT comprises introducing antisense gene.
XX
PS Example 8; Page 8; 25pp; Chinese.
XX
XX The present invention describes a method for altering the protein/fatty
CC acid composition of seeds. The method comprises: (1) cloning
CC phosphoenolpyruvate carboxylase (PEP) or acetyl-CoA carboxylase (ACC)
CC genes or their fragments; (2) constructing the corresponding antisense
CC gene of anti-PEP or anti-ACC; and (3) introducing the antisense gene into
CC the plant cell of a crop. The method is applicable in plant breeding to
CC give oilseed crops with high oil or protein content like soya bean,
CC sunflower, rapeseed, peanut and sesame. The produced crop plants have
CC high yield of oil or protein. The present sequence represents an
CC oligonucleotide which is used in the construction of an anti-PEP gene in
CC an example from the present invention
XX
SQ Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match      21.0%; Score 4.2; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. NO. 1.3e+02;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy  3 GTCTCCAGT 11
    ||| |||
Db  2 GACTGGAGT 10

RESULT 118
ABT14242
ID ABT14242 standard; DNA; 10 BP.
XX
AC ABT14242;
XX
DT 20-FEB-2003 (first entry)
XX
DE Nucleic acid PCR amplification method-related RAPD PCR primer #12.
XX
KW Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
KW RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.
XX
OS Unidentified.
XX
FN WO200281743-A2.
XX
PD 17-OCT-2002.
XX
PF 28-MAR-2002; 2002WO-GB001489.
XX
PR 02-APR-2001; 2001GB-00008182.

```


CC disease or an associated disorder in a subject involving determining the
 CC presence and/or abundance of a BACE455 polynucleotide or polypeptide in a
 CC sample taken from the subject during or after the treatment and comparing
 CC the presence and/or abundance to a reference sample from the subject
 CC prior to or at an earlier stage of the treatment, a method of producing a
 CC an antibody that binds a BACE455 polypeptide, and a method of producing a
 CC composition comprising a BACE455 inhibitor. The sequences, methods and
 CC compositions of the invention are useful for treating or preventing a
 CC neurodegenerative disease or an associated disorder in a subject, such as
 CC Alzheimer's disease, Down syndrome, glaucoma, Parkinson's disease,
 CC amyotrophic lateral sclerosis, stroke and dementia. This sequence
 CC represents a PCR primer used to amplify cDNA encoding the human BACE455
 CC polypeptide of the invention.

XX SQ Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;
 Query Match 21.0%; Score 4.2; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.3e+02;
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 7 CCAGTCTCT 15
 ||||| ||
 Db 10 CCAGAGACT 2

RESULT 121
 ADR36038
 ID ADR36038 standard; DNA; 9 BP.

XX AC ADR36038;

XX DT 04-NOV-2004 (first entry)

XX DE Human nicking agent DNA containing BstNBI restriction site #2458.

XX KW ss; nicking agent; assay panel; diagnosis; expression pattern;

XX KW DNA fingerprinting; nosocomial infection; microbiological assay;

XX KW bacterial contamination; genome mapping; bioremediation.

XX OS Homo sapiens.

XX PN WO2004067765-A2.

XX PD 12-AUG-2004.

XX PF 29-JAN-2004; 2004WO-US002720.

XX PR 29-JAN-2003; 2003US-0443811P.

XX PA (KECK-) KECK GRADUATE INST.

XX PI Van Ness J, Galas DJ, Van Ness LK;

XX DR WPI; 2004-581010/56.

XX PT Identifying nucleic acid sample source, useful for identifying bacterial
 PT strains involved in nosocomial infections, comprises treating the nucleic
 PT acid sample with components comprising a nicking agent under nicking
 PT conditions.

XX PS Example 3; Page 105-219; 238pp; English.

XX CC The invention relates to a method of treating a nucleic acid sample with
 CC components under nicking conditions, where the components comprise a
 CC nicking agent, and the conditions cause the nicking agent to nick the
 CC nucleic acid sample to thus produce a family of initiating
 CC oligonucleotide fragments, and subjecting one or more members of the
 CC family of initiating oligonucleotide fragments to a characterizing
 CC process to thus provide results. The method is useful for creating an
 CC assay panel of diagnostic oligonucleotides that can identify any organism
 CC or individual. The method is useful for characterizing other DNA
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.
 CC The method, kit or composition is useful for identifying the source

CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,
 CC non-human animal or human. The method is particularly useful for rapidly
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,
 CC subspecies, and especially strains or individuals of the subspecies. It
 CC is especially useful for identifying different bacterial strains involved
 CC in e.g., nosocomial infections. Furthermore, the method is useful for
 CC diagnosing bacterial disease in plants and humans, monitoring for
 CC bacterial content and/or contamination in the environment, monitoring
 CC food for bacterial contamination, monitoring quality assurance/control of
 CC bacterial contamination, monitoring quality assurance/control of
 CC laboratory tests involving microbiological assays, tracing bacterial
 CC contamination and/or outbreaks of bacterial infections, genome mapping,
 CC monitoring bioremediation sites, and for monitoring agricultural sites
 CC for test crops, bacteria and recombinant molecules. Sequences ADR3581-
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI
 CC restriction site and used in the method of the invention.

XX SQ Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 20.0%; Score 4; DB 1; Length 9;
 Best Local Similarity 66.7%; Pred. No. 2.5e+02;
 Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Oy 8 CAGTCT 13
 :||| ||
 Db 3 SAGACT 8

RESULT 122

ADR36039

ID ADR36039 standard; DNA; 9 BP.

XX AC ADR36039;

XX DT 04-NOV-2004 (first entry)

XX DE Human nicking agent DNA containing BstNBI restriction site #2459.

XX KW ss; nicking agent; assay panel; diagnosis; expression pattern;

XX KW DNA fingerprinting; nosocomial infection; microbiological assay;

XX KW bacterial contamination; genome mapping; bioremediation.

XX OS Homo sapiens.

XX PN WO2004067765-A2.

XX PD 12-AUG-2004.

XX PF 29-JAN-2004; 2004WO-US002720.

XX PR 29-JAN-2003; 2003US-0443811P.

XX PA (KECK-) KECK GRADUATE INST.

XX PI Van Ness J, Galas DJ, Van Ness LK;

XX DR WPI; 2004-581010/56.

XX PT Identifying nucleic acid sample source, useful for identifying bacterial
 PT strains involved in nosocomial infections, comprises treating the nucleic
 PT acid sample with components comprising a nicking agent under nicking
 PT conditions.

XX PS Example 3; Page 105-219; 238pp; English.

XX CC The invention relates to a method of treating a nucleic acid sample with
 CC components under nicking conditions, where the components comprise a
 CC nicking agent, and the conditions cause the nicking agent to nick the
 CC nucleic acid sample to thus produce a family of initiating
 CC oligonucleotide fragments, and subjecting one or more members of the
 CC family of initiating oligonucleotide fragments to a characterizing
 CC process to thus provide results. The method is useful for creating an
 CC assay panel of diagnostic oligonucleotides that can identify any organism

CC or individual. The method is useful for characterizing other DNA
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.
 CC The method, kit or composition is useful for identifying the source
 CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,
 CC non-human animal or human. The method is particularly useful for rapidly
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,
 CC subspecies, and especially strains or individuals of the subspecies. It
 CC is especially useful for identifying different bacterial strains involved
 CC in e.g., nosocomial infections. Furthermore, the method is useful for
 CC diagnosing bacterial disease in plants and humans, monitoring for
 CC bacterial content and/or contamination in the environment, monitoring
 CC food for bacterial contamination, monitoring quality assurance/quality control of
 CC bacterial contamination, monitoring microbiological assays, tracing bacterial
 CC laboratory tests involving microbiological assays, genome mapping,
 CC contamination and/or outbreaks of bacterial infections, genome mapping,
 CC monitoring bioremediation sites, and for monitoring agricultural sites
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI
 CC restriction site and used in the method of the invention.

XX SQ Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 20.0%; Score 4; DB 1; Length 9;
 Best Local Similarity 66.7%; Pred. No. 2.5e+02;
 Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 8 CAGTCT 13
 :|||
 Db 3 SAGACT 8

RESULT 123

ADR36041
 ID ADR36041 standard; DNA; 9 BP.

XX AC ADR36041;

XX DT 04-NOV-2004 (first entry)

XX DE Human nicking agent DNA containing BstNBI restriction site #2461.

XX KW ss; nicking agent; assay panel; diagnosis; expression pattern;
 KW DNA fingerprinting; nosocomial infection; microbiological assay;
 KW bacterial contamination; genome mapping; bioremediation.

XX OS Homo sapiens.

XX PN WO2004067765-A2.

XX PD 12-AUG-2004.

XX PF 29-JAN-2004; 2004WO-US002720.

XX PR 29-JAN-2003; 2003US-0443811P.

XX PA (KECK-) KECK GRADUATE INST.

XX PI Van Ness J, Galas DJ, Van Ness LK;

XX DR WPI; 2004-581010/56.

XX PT Identifying nucleic acid sample source, useful for identifying bacterial
 PT strains involved in nosocomial infections, comprises treating the nucleic
 PT acid sample with components comprising a nicking agent under nicking
 PT conditions.

XX PS Example 3; Page 105-219; 238pp; English.

XX CC The invention relates to a method of treating a nucleic acid sample with
 CC components under nicking conditions, where the components comprise a
 CC nicking agent, and the conditions cause the nicking agent to nick the
 CC nucleic acid sample to thus produce a family of initiating
 CC oligonucleotide fragments, and subjecting one or more members of the

CC family of initiating oligonucleotide fragments to a characterization
 CC process to thus provide results. The method is useful for creating an
 CC assay panel of diagnostic oligonucleotides that can identify any organism
 CC or individual. The method is useful for characterizing other DNA
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.
 CC The method, kit or composition is useful for identifying the source
 CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,
 CC non-human animal or human. The method is particularly useful for rapidly
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species,
 CC subspecies, and especially strains or individuals of the subspecies. It
 CC is especially useful for identifying different bacterial strains involved
 CC in e.g., nosocomial infections. Furthermore, the method is useful for
 CC diagnosing bacterial disease in plants and humans, monitoring for
 CC bacterial content and/or contamination in the environment, monitoring
 CC food for bacterial contamination, monitoring quality assurance/quality control of
 CC bacterial contamination, monitoring microbiological assays, tracing bacterial
 CC laboratory tests involving microbiological assays, genome mapping,
 CC contamination and/or outbreaks of bacterial infections, genome mapping,
 CC monitoring bioremediation sites, and for monitoring agricultural sites
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI
 CC restriction site and used in the method of the invention.

XX SQ Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 20.0%; Score 4; DB 1; Length 9;
 Best Local Similarity 66.7%; Pred. No. 2.5e+02;
 Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 8 CAGTCT 13
 :|||
 Db 3 SAGACT 8

RESULT 124

ADR36040
 ID ADR36040 standard; DNA; 9 BP.

XX AC ADR36040;

XX DT 04-NOV-2004 (first entry)

XX DE Human nicking agent DNA containing BstNBI restriction site #2460.

XX KW ss; nicking agent; assay panel; diagnosis; expression pattern;
 KW DNA fingerprinting; nosocomial infection; microbiological assay;
 KW bacterial contamination; genome mapping; bioremediation.

XX OS Homo sapiens.

XX PN WO2004067765-A2.

XX PD 12-AUG-2004.

XX PF 29-JAN-2004; 2004WO-US002720.

XX PR 29-JAN-2003; 2003US-0443811P.

XX PA (KECK-) KECK GRADUATE INST.

XX PI Van Ness J, Galas DJ, Van Ness LK;

XX DR WPI; 2004-581010/56.

XX PT Identifying nucleic acid sample source, useful for identifying bacterial
 PT strains involved in nosocomial infections, comprises treating the nucleic
 PT acid sample with components comprising a nicking agent under nicking
 PT conditions.

XX PS Example 3; Page 105-219; 238pp; English.

XX CC The invention relates to a method of treating a nucleic acid sample with
 CC components under nicking conditions, where the components comprise a

CC nicking agent, and the conditions cause the nicking agent to nick the
 CC nucleic acid sample to thus produce a family of initiating
 CC oligonucleotide fragments, and subjecting one or more members of the
 CC family of initiating oligonucleotide fragments to a characterization
 CC process to thus provide results. The method is useful for creating an
 CC assay panel of diagnostic oligonucleotides that can identify any organism
 CC or individual. The method is useful for characterizing other DNA
 CC molecules e.g., cDNA, and for characterizing cDNA expression patterns.
 CC The method, kit or composition is useful for identifying the source
 CC organism of a nucleic acid sample e.g., bacterium, fungus, virus, plant,
 CC non-human animal or human. The method is particularly useful for rapidly
 CC fingerprinting DNA to identifying prokaryotic and eukaryotic species.
 CC subspecies, and especially strains or individuals of the subspecies. It
 CC is especially useful for identifying different bacterial strains involved
 CC in e.g., nosocomial infections. Furthermore, the method is useful for
 CC diagnosing bacterial disease in plants and humans, monitoring for
 CC bacterial content and/or contamination in the environment, monitoring
 CC food for bacterial contamination, monitoring manufacturing processes for
 CC bacterial contamination, monitoring quality assurance/quality control of
 CC laboratory tests involving microbiological assays, tracing bacterial
 CC contamination and/or outbreaks of bacterial infections, genome mapping,
 CC monitoring bioremediation sites, and for monitoring agricultural sites
 CC for test crops, bacteria and recombinant molecules. Sequences ADR33581-
 CC ADR37496 correspond to target nucleic acids containing an NBstNBI
 CC restriction site and used in the method of the invention.

XX Sequence 9 BP; 4 A; 1 C; 2 G; 1 T; 0 U; 1 Other;

Query Match 20.0%; Score 4; DB 1; Length 9;
 Best Local Similarity 66.7%; Pred. No. 2.5e+02;
 Matches 4; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 8 CAGTCT 13
 :|||
 Db 3 SAGACT 8

RESULT 125
 ABV69205/c

ID ABV69205 standard; cDNA; 11 BP.

XX ABV69205;

XX 21-OCT-2002 (first entry)

XX Human skin EST 6991.

XX Human; skin; dermatological; vulnary; antipsoriatic; antiseborrhaeic;
 KW immunosuppressive; antinflammatory; cycostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

XX (HENK) HENKEL KGAA.

XX Petersohn D, Conradt M, Hofmann K;

XX WPT; 2002-590638/63.

XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.

XX Disclosure; Page 219; 1345pp; German.

XX

CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention

XX Sequence 11 BP; 2 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 20.0%; Score 4; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 1.4e+02;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGT 11
 :|||
 Db 4 CAGT 1

RESULT 126

AAS98827
 ID AAS98827 standard; DNA; 10 BP.

XX AAS98827;

XX 26-MAR-2002 (first entry)

XX Colony stimulating factor 1 receptor (CSF1R) oligonucleotide #193.

XX Colony stimulating factor 1 receptor; CSF1R; polymorphic variant;
 KW cycostatic; gene therapy; malignant histiocytosis; isogene;
 KW myeloid malignancy; inflammatory disorder; transgenic animal; haplotype;
 KW genotype; human; allele specific oligonucleotide; ASO; primer;
 KW primer extension; ss.

XX Homo sapiens.

XX WO200179225-A2.

XX 25-OCT-2001.

XX 12-APR-2001; 2001WO-US012044.

XX 12-APR-2000; 2000US-0196411P.

XX (GENA-) GENAISSANCE PHARM INC.

XX Chew A, Choi JY, Koshiy B;

XX WPI; 2002-075058/10.

XX Novel polymorphic variants of colony stimulating factor 1 receptor useful
 PT in studying expression and function of the protein, useful for screening
 PT candidate drugs to treat diseases e.g. inflammatory disorders.

XX Claim 17; Page 17; 164pp; English.

XX The invention describes a novel isolated polynucleotide (I) comprising a
 CC sequence which is a polymorphic variant (PV) of a reference sequence for
 CC colony stimulating factor 1 receptor (CSF1R) gene, found on The
 CC polypeptide are useful for improving the discovery and development of
 CC drugs for treating diseases associated with CSF1R activity, e.g.,
 CC malignant histiocytosis, myeloid malignancies, and inflammatory disorders
 CC and the haplotypes can be used to validate CSF1R as a candidate target
 CC for treating a specific condition or disease predicted to be associated
 CC with CSF1R activity. Genotyping the CSF1R gene of an individual can also
 CC be used in developing diagnostic tests and therapeutic treatments. (I) is
 CC useful in studying the expression and function of CSF1R, and in

CC expressing CSF1R protein for use in screening for candidate drugs to
 CC treat diseases related to CSF1R activity and in studying the effect of
 CC the variation on the biological activity of CSF1R as well as on the
 CC binding affinity of candidate drugs targeting CSF1R. Antibodies are
 CC useful in a variety of diagnostic and prognostic formats and therapeutic
 CC methods. A transgenic animal is useful in studying expression of the
 CC CSF1R isogenes in vivo, for in vivo screening and testing of drugs
 CC targeted against CSF1R protein, and for testing the efficacy of
 CC therapeutic agents and compounds. Allele specific oligonucleotides (ASO)
 CC are useful as probes and primers, and for assaying a polymorphism in the
 CC target region. Without requiring any a priori knowledge of the phenotypic
 CC effect of any particular CSF1R or haplotype the invention provides a
 CC method for identifying lead compounds that are more likely to show
 CC efficacy in clinical trials. This sequence is a primer used to detect
 CC CSF1R gene polymorphisms by primer extension, described in the method of
 CC the invention
 CC
 SQ Sequence 10 BP; 2 A; 3 C; 4 G; 1 T; 0 U; 0 Other;
 Query Match 18.0%; Score 3.6; DB 1; Length 10;
 Best Local Similarity 60.0%; Pred. No. 1.5e+02;
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Qy 3 GTCTCCAGTC 12
 Db 1 GCCTGGAGAC 10
 RESULT 127
 ABV66235/c
 ID ABV66235 standard; cDNA; 11 BP.
 XX
 AC ABV66235;
 XX
 DT 21-OCT-2002 (first entry)
 DE Human skin EST 4021.
 XX
 KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;
 KW immunosuppressive; antiinflammatory; cycostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Petersohn D, Conradt M, Hofmann K;
 XX
 DR WPI; 2002-590638/63.
 XX
 PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 PS Disclosure; Page 136; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 1 A; 3 C; 4 G; 3 T; 0 U; 0 Other;
 Query Match 18.0%; Score 3.6; DB 1; Length 11;
 Best Local Similarity 60.0%; Pred. No. 1.5e+02;
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Qy 5 CTCGAGTCTC 14
 Db 11 CTGGAGACAC 2
 RESULT 128
 ADP69107/c
 ID ADP69107 standard; DNA; 20 BP.
 XX
 AC ADP69107;
 XX
 DT 09-SEP-2004 (first entry)
 XX
 DE Human mitoNEET-specific antisense oligonucleotide #1.
 XX
 KW human; antisense oligonucleotide; mitochondrial membrane;
 KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
 KW immunological disorder; cardiovascular disorder; including hypertension;
 KW neurodegenerative disorders; ischaemia; reperfusion; ss;
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
 XX
 OS Homo sapiens.
 XX
 PN WO2004053060-A2.
 XX
 PD 24-JUN-2004.
 XX
 PF 25-NOV-2003; 2003WO-US037621.
 XX
 PR 06-DEC-2002; 2002US-0431529P.
 XX
 PA (PHAA) PHARMACIA CORP.
 XX
 PI Colca JR;
 XX
 DR WPI; 2004-468836/44.
 XX
 PT New antisense oligonucleotides encoding mitoNEET, useful for modulating
 PT mitoNEET expression or for treating diseases associated with mitoNEET,
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.
 XX
 PS Claim 4; SEQ ID NO 1; 226pp; English.
 XX
 CC The invention comprises antisense oligonucleotides that are targeted to
 CC the nucleic acids encoding a family of human proteins from mitochondrial
 CC membranes, which bind insulin sensitising, antidiabetic
 CC thiazolidinediones (referred to as: mitoNEET). The antisense
 CC oligonucleotides of the invention are useful for modulating mitoNEET
 CC expression and for treating diseases or conditions associated with
 CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular
 CC disorders including hypertension, neurological disorders, and
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a
 CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
 CC phosphorothioate backbone.
 XX
 SQ Sequence 20 BP; 1 A; 6 C; 3 G; 10 T; 0 U; 0 Other;
 Query Match 18.0%; Score 3.6; DB 1; Length 20;
 Best Local Similarity 60.0%; Pred. No. 1.1e+02;
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
 Qy 3 GTCTCCAGTC 12

```

Db      ||| |||
      12 GACTGGAGAC 3

RESULT 129
ADP69109/c
ID   ADP69109 standard; DNA, 20 BP.
XX
XX
AC   ADP69109;
XX
XX
DT   09-SEP-2004 (first entry)
XX
XX
DE   Human mitoNEET-specific antisense oligonucleotide #3.
XX
XX
KW   human; antisense oligonucleotide; mitochondrial membrane;
KW   insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW   immunological disorder; cardiovascular disorder; including hypertension;
KW   neurological disorders; ischaemia; reperfusion; ss;
KW   2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
XX
OS   Homo sapiens.
XX
XX
PN   WO2004053060-A2.
XX
XX
PD   24-JUN-2004.
XX
XX
PF   25-NOV-2003; 2003WO-US037621.
XX
XX
PR   06-DEC-2002; 2002US-0431529P.
XX
XX
PA   (PHAA ) PHARMACIA CORP.
XX
XX
PI   Colca JR;
XX
XX
PI   WPI; 2004-468836/44.
XX
XX
PT   New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT   mitoNEET expression or for treating diseases associated with mitoNEET,
PT   e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
XX
PS   Claim 4; SEQ ID NO 3; 226pp; English.
XX
XX
CC   The invention comprises antisense oligonucleotides that are targeted to
CC   the nucleic acids encoding a family of human proteins from mitochondrial
CC   membranes, which bind insulin sensitising, antidiabetic
CC   thiazolidinediones (referred to as: mitoNEET). The antisense
CC   oligonucleotides of the invention are useful for modulating mitoNEET
CC   expression and for treating diseases or conditions associated with
CC   mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC   disorders including hypertension, neurological disorders, and
CC   ischaemia/reperfusion injuries. The present DNA sequence represents a
CC   mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC   present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC   phosphorothioate backbone.
XX
XX
SQ   Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;
      Query Match      18.0%; Score 3.6; DB 1; Length 20;
      Best Local Similarity 60.0%; Pred. No. 1.1e+02;
      Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
      |||||
Db      11 GACTGGAGAC 2

RESULT 130
ADP69110/c
ID   ADP69110 standard; DNA, 20 BP.
XX
XX
AC   ADP69110;
XX
XX
DT   09-SEP-2004 (first entry)
XX
XX

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XX
DE
XX
KW   Human mitoNEET-specific antisense oligonucleotide #4.
KW
KW   human; antisense oligonucleotide; mitochondrial membrane;
KW   insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW   immunological disorder; cardiovascular disorder; including hypertension;
KW   neurological disorders; ischaemia; reperfusion; ss;
KW   2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
XX
OS   Homo sapiens.
XX
XX
PN   WO2004053060-A2.
XX
XX
PD   24-JUN-2004.
XX
XX
PF   25-NOV-2003; 2003WO-US037621.
XX
XX
PR   06-DEC-2002; 2002US-0431529P.
XX
XX
PA   (PHAA ) PHARMACIA CORP.
XX
XX
PI   Colca JR;
XX
XX
PI   WPI; 2004-468836/44.
XX
XX
PT   New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT   mitoNEET expression or for treating diseases associated with mitoNEET,
PT   e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
XX
PS   Claim 4; SEQ ID NO 4; 226pp; English.
XX
XX
CC   The invention comprises antisense oligonucleotides that are targeted to
CC   the nucleic acids encoding a family of human proteins from mitochondrial
CC   membranes, which bind insulin sensitising, antidiabetic
CC   thiazolidinediones (referred to as: mitoNEET). The antisense
CC   oligonucleotides of the invention are useful for modulating mitoNEET
CC   expression and for treating diseases or conditions associated with
CC   mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC   disorders including hypertension, neurological disorders, and
CC   ischaemia/reperfusion injuries. The present DNA sequence represents a
CC   mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC   present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC   phosphorothioate backbone.
XX
XX
SQ   Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;
      Query Match      18.0%; Score 3.6; DB 1; Length 20;
      Best Local Similarity 60.0%; Pred. No. 1.1e+02;
      Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
      |||||
Db      13 GACTGGAGAC 4

RESULT 131
ADP69108/c
ID   ADP69108 standard; DNA, 20 BP.
XX
XX
AC   ADP69108;
XX
XX
DT   09-SEP-2004 (first entry)
XX
XX
DE   Human mitoNEET-specific antisense oligonucleotide #2.
XX
XX
KW   human; antisense oligonucleotide; mitochondrial membrane;
KW   insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
KW   immunological disorder; cardiovascular disorder; including hypertension;
KW   neurological disorders; ischaemia; reperfusion; ss;
KW   2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
XX
OS   Homo sapiens.
XX

```

```

PN WO2004053060-A2.
XX
XX 24-JUN-2004.
XX
XX 25-NOV-2003; 2003WO-US037621.
XX
XX 06-DEC-2002; 2002US-0431529P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Colca JR;
XX
XX WPI; 2004-468836/44.
XX
XX New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT mitoNEET expression or for treating diseases associated with mitoNEET,
PT e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
XX Claim 4; SEQ ID NO 2; 226pp; English.
XX
XX The invention comprises antisense oligonucleotides that are targeted to
CC the nucleic acids encoding a family of human proteins from mitochondrial
CC membranes, which bind insulin sensitising, antidiabetic
CC thiazolidinediones (referred to as: mitoNEET). The antisense
CC oligonucleotides of the invention are useful for modulating mitoNEET
CC expression and for treating diseases or conditions associated with
CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC disorders including hypertension, neurological disorders, and
CC ischaemia/reperfusion injuries. The present DNA sequence represents a
CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC phosphorothioate backbone.
XX
XX Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;
SQ
Query Match 18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 3 GTCTCCAGTC 12
DB 10 GACTGGAGAC 1

RESULT 132
ADP69116/C
ID ADP69116 standard; DNA; 20 BP.
XX
XX ADP69116;
XX
XX 09-SEP-2004 (first entry)
XX
XX Human mitoNEET-specific antisense oligonucleotide #10.
XX
XX human; antisense oligonucleotide; mitochondrial membrane;
XX insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
XX immunological disorder; cardiovascular disorder; including hypertension;
XX neurological disorders; ischaemia; reperfusion; ss;
XX 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
XX Homo sapiens.
XX
XX WO2004053060-A2.
XX
XX 24-JUN-2004.
XX
XX 25-NOV-2003; 2003WO-US037621.
XX
XX 06-DEC-2002; 2002US-0431529P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Colca JR;
XX
XX WPI; 2004-468836/44.
XX
XX New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT mitoNEET expression or for treating diseases associated with mitoNEET,
PT e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
XX Claim 4; SEQ ID NO 2; 226pp; English.
XX
XX The invention comprises antisense oligonucleotides that are targeted to
CC the nucleic acids encoding a family of human proteins from mitochondrial
CC membranes, which bind insulin sensitising, antidiabetic
CC thiazolidinediones (referred to as: mitoNEET). The antisense
CC oligonucleotides of the invention are useful for modulating mitoNEET
CC expression and for treating diseases or conditions associated with
CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular
CC disorders including hypertension, neurological disorders, and
CC ischaemia/reperfusion injuries. The present DNA sequence represents a
CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
CC phosphorothioate backbone.
XX
XX Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;
SQ
Query Match 18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 1.1e+02;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 3 GTCTCCAGTC 12
DB 10 GACTGGAGAC 1

RESULT 132
ADP69116/C
ID ADP69116 standard; DNA; 20 BP.
XX
XX ADP69116;
XX
XX 09-SEP-2004 (first entry)
XX
XX Human mitoNEET-specific antisense oligonucleotide #18.
XX
XX human; antisense oligonucleotide; mitochondrial membrane;
XX insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
XX immunological disorder; cardiovascular disorder; including hypertension;
XX neurological disorders; ischaemia; reperfusion; ss;
XX 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
XX
XX Homo sapiens.
XX
XX WO2004053060-A2.
XX
XX 24-JUN-2004.
XX
XX 25-NOV-2003; 2003WO-US037621.
XX
XX 06-DEC-2002; 2002US-0431529P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Colca JR;
XX
XX WPI; 2004-468836/44.
XX
XX New antisense oligonucleotides encoding mitoNEET, useful for modulating
PT mitoNEET expression or for treating diseases associated with mitoNEET,
PT e.g. diabetes, immunological disorders or cardiovascular disorders.
XX
XX Claim 4; SEQ ID NO 18; 226pp; English.
XX
XX The invention comprises antisense oligonucleotides that are targeted to
CC the nucleic acids encoding a family of human proteins from mitochondrial

```


CC membranes, which bind insulin sensitising, antidiabetic
 CC thiazolidinediones (referred to as: mitoNEET). The antisense
 CC oligonucleotides of the invention are useful for modulating mitoNEET
 CC expression and for treating diseases or conditions associated with
 CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular
 CC disorders including hypertension, neurological disorders, and
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a
 CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
 CC phosphorothioate backbone.

XX SQ Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;
 Query Match 18.0%; Score 3.6; DB 1; Length 20;
 Best Local Similarity 60.0%; Pred. No. 1.1e+02;
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 GTCTCCAGTC 12
 Db 15 GACTGGAGAC 6

RESULT 134
 ADP69130/c
 ID ADP69130 standard; DNA; 20 BP.
 XX AC ADP69130;
 XX DT 09-SEP-2004 (first entry)
 XX DE Human mitoNEET-specific antisense oligonucleotide #24.
 XX KW human; antisense oligonucleotide; mitochondrial membrane;
 KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
 KW immunological disorder; cardiovascular disorder; including hypertension;
 KW neurological disorders; ischaemia; reperfusion; ss;
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
 XX OS Homo sapiens.
 XX PN WO2004053060-A2.
 XX PD 24-JUN-2004.
 XX PF 25-NOV-2003; 2003WO-US037621.
 XX PR 06-DEC-2002; 2002US-0431529P.
 XX PA (PHAA) PHARMACIA CORP.
 XX PI Colca JR;
 XX PS WPI; 2004-468836/44.
 XX PT New antisense oligonucleotides encoding mitoNEET, useful for modulating
 PT mitoNEET expression or for treating diseases associated with mitoNEET,
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.
 XX PS Claim 4; SEQ ID NO 24; 226pp; English.
 XX CC The invention comprises antisense oligonucleotides that are targeted to
 CC the nucleic acids encoding a family of human proteins from mitochondrial
 CC membranes, which bind insulin sensitising, antidiabetic
 CC thiazolidinediones (referred to as: mitoNEET). The antisense
 CC oligonucleotides of the invention are useful for modulating mitoNEET
 CC expression and for treating diseases or conditions associated with
 CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular
 CC disorders including hypertension, neurological disorders, and
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a
 CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
 CC phosphorothioate backbone.

SQ Sequence 20 BP; 3 A; 7 C; 2 G; 8 T; 0 U; 0 Other;
 Query Match 18.0%; Score 3.6; DB 1; Length 20;
 Best Local Similarity 60.0%; Pred. No. 1.1e+02;
 Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 3 GTCTCCAGTC 12
 Db 16 GACTGGAGAC 7

RESULT 135
 AAZ81653/c
 ID AAZ81653 standard; DNA; 10 BP.
 XX AC AAZ81653;
 XX DT 07-APR-2000 (first entry)
 XX DE Metastatic breast tumour cell upregulated transcript tag #887.
 XX KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.
 XX OS Homo sapiens.
 XX PN WO9965928-A2.
 XX PD 23-DEC-1999.
 XX PF 18-JUN-1999; 99WO-US013647.
 XX PR 19-JUN-1998; 98US-0089853P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX PI Roberts BL, Shankara S;
 XX WPI; 2000-106079/09.
 XX PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX PS Claim 1; Page 82; 219pp; English.
 XX CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive

RESULT 138

AAZ83008/c
ID AAZ83008 standard; DNA; 10 BP.

XX AC AAZ83008;
XX 07-APR-2000 (first entry)
XX Metastatic breast tumour cell upregulated transcript tag #2242.

XX DE Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX KW non-metastatic breast tumour tissue; gene therapy; anticancer;
XX KW antimetastatic; vaccine; diagnosis; ss.

XX OS Homo sapiens.
XX PN W09965928-A2.
XX PD 23-DEC-1999.

XX PF 18-JUN-1999; 99WO-US013647.
XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089997P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.

XX PA (GENZ) GENZYME CORP.
XX PA (ROBE/) ROBERTS B L.
XX PA (SHAN/) SHANKARA S.
XX PI Roberts BL, Shankara S;
XX WIPI; 2000-106079/09.

XX Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer.
XX Claim 1; Page 119; 219pp; English.

XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand CC and isolate populations of educated, antigen-specific immune effector cells, e.g. cytotoxic T lymphocytes, and these used for adoptive immunotherapy

XX Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13

Db 8 AGCCT 4

RESULT 139

AAZ86119
ID AAZ86119 standard; DNA; 10 BP.

XX AC AAZ86119;
XX 07-APR-2000 (first entry)

XX DE Metastatic breast tumour cell downregulated transcript tag #5353.
XX KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX KW non-metastatic breast tumour tissue; gene therapy; anticancer;
XX KW antimetastatic; vaccine; diagnosis; ss.

XX OS Homo sapiens.
XX PN W09965928-A2.
XX PD 23-DEC-1999.

XX PF 18-JUN-1999; 99WO-US013647.
XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089997P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.

XX PA (GENZ) GENZYME CORP.
XX PA (ROBE/) ROBERTS B L.
XX PA (SHAN/) SHANKARA S.

XX PI Roberts BL, Shankara S;
XX WIPI; 2000-106079/09.

XX Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer.
XX Claim 1; Page 200; 219pp; English.

XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions. Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand CC and isolate populations of educated, antigen-specific immune effector cells, e.g. cytotoxic T lymphocytes, and these used for adoptive immunotherapy

XX Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13

				2 AGACT 6		Matches		4; Conservative		0; Mismatches		1; Indels		0; Gaps		0;	
Db																	
RESULT 140																	
AAF34179/C																	
ID	AAF34179	standard;	DNA;	10 BP.													
AC	AAF34179;																
XX	23-MAR-2001	(first entry)															
DT																	
DE	Yeast NORF gene SAGE tag	oligonucleotide	SEQ ID NO:918.														
XX	Yeast;	Saccharomyces cerevisiae;	characterisation;	cell cycle;	NORF;												
KW	nor previously assigned	open reading frame;	nonannotated ORF;	SAGE;													
KW	serial analysis of gene	expression;	antifungal;	tag;	identification;												
KW	linker;	PCR primer;	ds.														
XX	Saccharomyces cerevisiae.																
OS																	
XX	WO200077214-A2.																
PN																	
XX	21-DEC-2000.																
PD																	
XX	14-JUN-2000;	2000WO-US016223.															
PF																	
XX	16-JUN-1999;	99US-00335032.															
PR																	
XX	(UYJO) UNIV JOHNS HOPKINS.																
XX	Velulescu V, Vogelstein B, Kinzler K;																
XX	WPI; 2001-061874/07.																
DR																	
XX	Yeast gene coding sequences comprising NORF genes with serial analysis of																
PT	gene expression (SAGE) tags, useful for studying, monitoring and																
PT	affecting phases of the cell cycle.																
XX	Example; Page 32; 419pp; English.																
PS																	
XX	The present invention describes an isolated DNA molecule comprising a																
CC	coding sequence of a yeast gene selected from a group of 745 NORF (not																
CC	previously assigned open reading frame; or nonannotated ORF) genes																
CC	comprising a SAGE (serial analysis of gene expression) tag. Also																
CC	described are: (1) a method (M1) of using NORF genes to affect the cell																
CC	cycle comprising administering a NORF gene whose expression varies by at																
CC	least 10% between any two phases of the cell cycle selected from log																
CC	phase, S phase and G2/M; (2) a method (M2) for screening candidate																
CC	antifungal drugs comprising: (a) contacting a test substance with a yeast																
CC	cell; and (b) monitoring expression of a NORF gene whose expression																
CC	varies as in M1, where a test substance which modifies the expression of																
CC	the yeast gene is a candidate antifungal drug; (3) a method (M3) for																
CC	identifying human genes which are involved in cell cycle progression																
CC	comprising contacting human DNA with a probe which comprises at least 10																
CC	contiguous nucleotides of a NORF gene whose expression varies as in M1;																
CC	and (4) a method (M4) for identifying a candidate drug as a member of a																
CC	class of drugs having a characteristic effect on gene expression in a																
CC	yeast cell comprising contacting a yeast cell with a candidate drug and																
CC	monitoring expression in the yeast cell of at least 1 NORF gene whose																
CC	expression is affected by the class of drugs. The NORF genes may be used																
CC	to study, monitor and affect phases of the cell cycle, the differentially																
CC	expressed genes may be used as markers of phases of the cell cycle. The																
CC	methods may be used to identify candidate drugs which affect the cell																
CC	cycle and for identification of antifungal drugs. AAF33268 to AAF44064																
CC	represent SAGE tags used in the exemplification of the present invention.																
CC	AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE																
CC	method, in the exemplification of the present invention																
XX	Sequence 10 BP; 1 A; 3 C; 1 G; 5 T; 0 U; 0 Other;																
SQ																	
Query Match																	
Best Local Similarity																	
17.0%; Score 3.4; DB 1; Length 10;																	
80.0%; Pred. No. 1.5e+02;																	

Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13
DB 3 AGCT 7

RESULT 142
AAF38171/c
ID AAF38171 standard; DNA; 10 BP.
AC AAF38171;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4910.
XX
KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000WO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 175; 419pp; English.

CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE

CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13
DB 10 AGACT 6

RESULT 143
ACC41713
ID ACC41713 standard; DNA; 10 BP.
XX
AC ACC41713;
XX
DT 21-MAY-2003 (first entry)
XX
DE Zinc finger protein DNA-binding domain target sequence SEQ ID NO:260.
XX
KW Zinc finger domain; zinc finger; zinc finger binding domain; probe;
KW chimeric nucleic acid; library; PCR primer; ss.
XX
OS Synthetic.
XX
PN WO2003016571-A1.
XX
PD 27-FEB-2003.
XX
PF 17-AUG-2002; 2002WO-KR001560.
XX
PR 17-AUG-2001; 2001US-0313402P.
XX
PR 22-APR-2002; 2002US-0374355P.
XX
PA (TOOL-) TOOLGEN INC.
XX
PI Kim J, Bae K, Park K, Kwon Y, Ryu E, Hwang M;
XX
DR WPI; 2003-268344/26.
XX
PT New library comprising polypeptides having zinc finger domains, useful
PT for producing chimeric nucleic acids.
XX
PS Claim 40; Page 105; 234pp; English.

CC The present invention describes a library comprising polypeptides. Each
CC polypeptide comprises a first or second zinc finger domain. The domains
CC of each polypeptide are identical to a zinc finger domain from a
CC naturally occurring protein and either do not occur in the same naturally
CC occurring protein or occur in the same naturally occurring protein in a
CC different configuration than in the polypeptide. The domains vary among
CC polypeptides. Also described: (1) producing chimeric nucleic acids; (2)
CC generating an artificial zinc finger polypeptide that specifically binds
CC to a target DNA site; and (3) identifying a nucleic acid encoding a zinc
CC finger polypeptide that specifically recognises a target DNA site. The
CC library can be used for producing chimeric nucleic acids. ACC41551 to
CC ACC41758 and ABR40919 to ABR41015 represent nucleotide and amino acid
CC sequences given in the exemplification of the present invention

XX
SQ Sequence 10 BP; 5 A; 2 C; 2 G; 1 T; 0 U; 0 Other;
Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13
DB 6 AGACT 10

RESULT 144
ADZ67944
ID ADZ67944 standard; DNA; 10 BP.
XX
AC ADZ67944;
XX
DT 14-JUL-2005 (first entry)
XX
DE NTRK1 gene polymorphic site 8 primer extension oligonucleotide.
XX
KW Neurotrophic tyrosine kinase receptor type 1; NTRK1; Alzheimer's disease;
KW neurological disease; diagnosis; prognosis; primer; SNP detection;
KW haplotype mapping; ss.
XX
OS Homo sapiens.
XX
PN WO2005037204-A2.
XX
PD 28-APR-2005.
XX
PF 14-OCT-2004; 2004WO-US033689.
XX
PR 15-OCT-2003; 2003US-0511247P.
XX
PA (GENA-) GENAISSANCE PHARM.
XX
PI Aarsens J, Athanasios M, Brain C, Cohen N, Dain B, Denton RR;
PI Judson RS, Ozdemir V, Reed CR;
XX
DR WPI; 2005-322749/33.
XX
PT Determining whether individual has age of onset marker I or marker II, by
PT determining whether individual has zero copies or copy of neurotrophic
PT tyrosine kinase, receptor, type 1 haplotypes involved in onset of
PT Alzheimer's disease.
XX
PS Disclosure; SEQ ID NO 42; 128pp; English.
XX
CC The inventors have discovered a set of 112 haplotypes in the human
CC neurotrophic tyrosine kinase, receptor, type 1 (NTRK1) gene ADZ67903 that
CC are associated with the age of onset of Alzheimer's disease (AD). They
CC have also discovered that the copy number of each of these NTRK1
CC haplotypes affects the age of onset of AD. If an individual has at least
CC one copy of any of the 112 specified haplotypes, that individual is
CC defined as having an 'age of onset marker I' and is more likely to have a
CC later age of onset of AD than an individual having zero copies of any of
CC the 112 haplotypes, such an individual being defined as 'age of onset
CC marker II'. Testing for the presence or absence, and copy number, of the
CC haplotypes is useful for predicting the age at which individuals who are
CC at increased risk of AD are likely to develop AD and to help confirm a
CC diagnosis of mild or minimal cognitive impairment (MDI) or AD. Such
CC knowledge will assist therapy and lifestyle decisions. The correlation of
CC certain NTRK1 haplotypes with age of AD onset indicates that variation in
CC the NTRK1 gene should be considered in the development and clinical
CC trials of drugs for treating MCI, AD and other neurodegenerative
CC disorders. This correlation also provides a basis for pursuing NTRK1 as a
CC target for drugs designed to treat cognitive disorders such as MDI, AD
CC and other neurological diseases or conditions. Information is provided
CC about the composition of each of 112 haplotypes, namely the location in
CC the NTRK1 gene of each of the polymorphic sites (PSS) and the identity of
CC the reference and variant allele at each PS. An individual's genotype for
CC the set of PSs is obtained by primer extension, allele-specific PCR,
CC nucleic acid amplification, hybridization, mismatch detection, enzymatic
CC nucleic acid cleavage or sequencing assay. The present sequence is that
CC of a reverse primer extension oligonucleotide for detecting PSs in
CC haplotypes comprising preferred embodiments of age of onset markers I and
CC II.
XX
SQ Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13
DB 2 AGACT 6
RESULT 145
AEA62012
ID AEA62012 standard; DNA; 10 BP.
XX
AC AEA62012;
XX
DT 11-AUG-2005 (first entry)
XX
DE NTRK1 gene polymorphic site 8 primer extension oligonucleotide.
XX
KW NTRK1 gene; neurotrophic tyrosine kinase, receptor, type 1;
KW Alzheimer's disease; degeneration; neurological disease;
KW haplotype mapping; prognosis; primer; ss; SNP detection.
XX
OS Homo sapiens.
XX
PN WO2005052180-A2.
XX
PD 09-JUN-2005.
XX
PF 22-NOV-2004; 2004WO-US038876.
XX
PR 24-NOV-2003; 2003US-0524636P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Aarsens J, Athanasios M, Brain C, Cohen N, Dain B, Denton RR;
PI Judson RS, Ozdemir V, Reed CR;
XX
DR WPI; 2005-418015/42.
XX
PT Determining whether an individual has a progression marker I or
PT progression marker II, useful for predicting an individual's progression
PT of Alzheimer's disease, by determining whether the individual has any of
PT the NTRK1 haplotypes.
XX
PS Claim 40; SEQ ID NO 53; 108pp; English.
XX
CC The present invention relates to genetic markers of the human
CC neurotrophic tyrosine kinase, receptor, type 1 (NTRK1) gene AEA61960 that
CC are associated with progression of Alzheimer's disease (AD). 12
CC polymorphic sites (PSS) have been discovered in the NTRK1 gene of
CC Caucasian individuals with AD, and a set of 70 haplotypes having
CC association with progression of AD have been identified. If an individual
CC has 0 or 1 copy of any of haplotypes 1-41 and 67-70, or 0 copies of any
CC of haplotypes 42-66, then that individual is defined as having a
CC progression marker I and is more likely to exhibit a slower progression
CC of AD than an individual having 2 copies of any of haplotypes 1-41 and 67
CC -70, or at least 1 copy of any of haplotypes 42-66, such an individual
CC being defined as having a progression marker II. Additional haplotypes
CC may be identified that are in linkage disequilibrium with any of
CC haplotypes 1-70, referred to as linked haplotypes and substitute
CC haplotypes of any of haplotypes 1-70, in which one or more of the PSS in
CC the original haplotype is substituted with another PS, where the allele
CC at the substituted PS is in linkage disequilibrium with the allele at the
CC substituting PS. The invention provides methods and kits for determining
CC whether an individual has a progression marker I or a progression marker
CC II. A method is also provided for predicting an individual's progression
CC of AD. The individual is especially a Caucasian diagnosed as having a
CC cognitive disorder. An individual's genotype for each PS may be obtained
CC by primer extension, allele-specific PCR, nucleic acid amplification,
CC hybridization, mismatch-detection, enzymatic nucleic acid cleavage or
CC sequencing assay. The present sequence is a reverse primer extension
CC oligonucleotide that can be used to detect the allele at PSs of the NTRK1
CC gene. The 3' terminus of the oligonucleotide is complementary to the
CC nucleotide located immediately adjacent to the PS. The oligonucleotide is
CC included in a claimed kit of the invention used to determine whether an

CC individual has a progression marker I or progression marker II.

XX Sequence 10 BP; 2 A; 1 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 10;
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
 ||||
 Db 2 AGACT 6

RESULT 146

AAZ83176
 ID AAZ83176 standard; DNA; 10 BP.

XX

AC AAZ83176;

DT 07-APR-2000 (first entry)

XX Metastatic breast tumour cell upregulated transcript tag #2410.

XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;

KW non-metastatic breast tumour tissue; gene therapy; anticancer;

KW antimetastatic; vaccine; diagnosis; ss.

XX Homo sapiens.

XX WO9965928-A2.

XX

XX 23-DEC-1999.

XX

XX 18-JUN-1999; 99WO-US013647.

XX

PR 19-JUN-1998; 98US-0099853P.

PR 19-JUN-1998; 98US-0089997P.

PR 19-JUN-1998; 98US-0090039P.

PR 19-JUN-1998; 98US-0090040P.

PR 19-JUN-1998; 98US-0090041P.

XX (GENZ) GENZYME CORP.

PA (ROBE/) ROBERTS B L.

PA (SHAN/) SHANKARA S.

XX

PI Roberts BL, Shankara S;

XX

XX WPI; 2000-106079/09.

XX

PT Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer.

XX Claim 1; Page 124; 219pp; English.

XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and treatment of breast cancer, particularly where metastatic. Diagnosis is by standard immunoassays or hybridisation/amplification reactions.

XX Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines; for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand

CC and isolate populations of educated, antigen-specific immune effector cells, e.g. cytotoxic T lymphocytes, and these used for adoptive immunotherapy

XX Sequence 10 BP; 2 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 10;

Best Local Similarity 80.0%; Pred. No. 1.5e+02;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13

||||

Db 4 AGACT 8

RESULT 147

AAH63895/C

ID AAH63895 standard; cDNA; 10 BP.

XX

AC AAH63895;

XX

DT 20-SEP-2001 (first entry)

XX

DE Human ubiquitously expressed transcriptome sequence SEQ ID NO: 735.

XX Human; transcriptome; gene expression pattern; cancer; drug screening;

KW cancer diagnosis; cell specific gene expression; ss.

XX Homo sapiens.

XX WO200138577-A2.

XX

XX 31-MAY-2001.

XX

XX 21-NOV-2000; 2000WO-US031922.

XX

PR 24-NOV-1999; 99US-00448480.

XX

PA (UYJO) UNIV JOHNS HOPKINS.

XX

PI Velculescu VE, Vogelstein B, Kinzler KW;

XX WPI; 2001-367706/38.

XX

PT New isolated polynucleotides, useful for identifying specific cell type, such as cancer cell, comprises transcriptomes expressed in particular cell types.

XX

XX Claim 13; Page 56; 94pp; English.

XX

XX The present invention describes a method of identifying the type of cell in a sample, involving determining which of the sequences AAH63161-AAH64724 is expressed by the cell. The transcriptomes described in the invention are cell-type specific, cancer specific or ubiquitously expressed in humans. They can also be used to screen for drugs, reduce cancer specific gene expression, standardise expression and restore the function of a diseased cell or tissue. The present sequence is one of the transcriptomes described in the exemplification of the invention

XX Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 10;

Best Local Similarity 80.0%; Pred. No. 1.5e+02;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13

||||

Db 6 AGACT 2

RESULT 148

AAF41988

ID AAF41988 standard; DNA; 10 BP.

```
XX AAF41988;
AC
XX 23-MAR-2001 (first entry)
DT
XX
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8727.
DE
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
OS
XX W0200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO ) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 311; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
XX Sequence 10 BP; 2 A; 1 C; 4 G; 3 T; 0 U; 0 Other;
SQ Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 9 AGTCT 13
Db 2 AGACT 6
RESULT 150
ABV78460
ID ABV78460 standard; cDNA; 10 BP.
XX
XX AC ABV78460;
XX
XX 29-NOV-2002 (first entry)
DT
XX
```

RESULT 149
AAD25917/c
ID AAD25917 standard; DNA; 10 BP.
XX
AC AAD25917;
XX
DT 26-MAR-2002 (first entry)
XX
DE Human MC4R gene polymorphism detecting primer #2.
XX
KW Human; single nucleotide polymorphism; SNP; melanocortin 4-receptor;
KW MC4R; haplotype; obesity; screening; allele-specific oligonucleotide;
KW ASO; gene therapy; anorectic; primer; ss.
XX
OS Homo sapiens.
XX
PN W0200179222-A2.
XX
PD 25-OCT-2001.
XX
PF 12-APR-2001; 2001WO-US011943.
XX
PR 12-APR-2000; 2000US-0196677P.
XX
PA (GENA-) GENAISSANCE PHARM INC.
XX
PI Bentivegna SC, Choi JY, Kazemi A, Lee HH, Nandabalan K, Parks KE;
PI Sauser EA;
XX
DR WPI; 2002-082744/11.
XX
PT Novel polymorphic variants of melanocortin 4-receptor gene useful in
PT studying expression and function of the protein, useful for screening
PT candidate drugs to treat diseases related to the protein activity e.g.
PT obesity.
XX
PS Claim 17; Page 13; 53pp; English.
XX
CC The invention relates to single nucleotide polymorphisms (SNP) in human
CC melanocortin 4-receptor (MC4R) gene. MC4R gene haplotypes are useful for
CC improving the efficiency and reliability of several steps in the
CC discovery and development of drugs for treating diseases associated with
CC MC4R activity, e.g. obesity. MC4R gene is useful in studying the
CC expression and function of MC4R and in expressing MC4R protein for use in
CC screening for candidate drugs to treat diseases related to MC4R activity
CC and in studying the effect of the variation on the biological activity of
CC MC4R as well as on the binding affinity of candidate drugs targeting
CC MC4R for the treatment of obesity. MC4R antibody is useful in a variety
CC of diagnostic and prognostic formats and in therapeutic methods. Allele-
CC specific oligonucleotide (ASO) is useful as probes and primers, and for
CC assaying a polymorphism in MC4R gene. MC4R DNA is used in gene therapy.
CC The present sequence is a primer used to detect polymorphism in human
CC MC4R gene
XX
SQ Sequence 10 BP; 1 A; 2 C; 1 G; 6 T; 0 U; 0 Other;
Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 1.5e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 9 AGTCT 13
Db 6 AGACT 2

RESULT 150
ABV78460
ID ABV78460 standard; cDNA; 10 BP.
XX
XX AC ABV78460;
XX
XX 29-NOV-2002 (first entry)
DT
XX

DE Human Th1 cell preferentially expressed EST SAGE tag, SEQ ID NO:171.
 XX SAGE tag; serial analysis of gene expression; human; Th1 cell;
 KW activated T cell; T lymphocyte; immune response; expression pattern;
 KW preferential expression; immune disorder; EST; expressed sequence tag;
 KW 58.
 XX Homo sapiens.
 XX JP2002186482-A.
 XX 02-JUL-2002.
 XX 19-DEC-2000; 2000JP-00385816.
 XX 19-DEC-2000; 2000JP-00385816.
 XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
 XX WPI; 2002-594261/64.
 XX Human activated Th1 and Th2 cell expression gene group, useful for the
 XX diagnosis and treatment of Th1 and Th2-related diseases.
 XX Claim 19; Page 11; 60pp; Japanese.
 XX The invention relates to SAGE (serial analysis of gene expression) tags
 XX representing groups of genes which are expressed in activated human Th1
 XX and/or Th2 cells. The SAGE tags of this invention consist of a sequence
 XX of 10 nucleotides located downstream of the 5'-CATG-3' sequence motif
 XX lying nearest to the polyA region of cDNAs derived from a variety of
 XX genes. These tags serve to uniquely identify each transcript and can thus
 XX be used to analyse the pattern of gene expression in particular cell
 XX types. The invention also relates to proteins encoded by the genes
 XX expressed in Th1 and/or Th2 cells, antibodies against these proteins, and
 XX inhibitors of the expression of groups of genes that are expressed in
 XX either or both the two cell types. Groups of genes expressed in Th1
 XX and/or Th2 cell types may be used for the diagnosis and treatment of Th1
 XX and Th2-related disorders. Sequences ABV78390-ABV78560 are SAGE tags
 XX representing 171 genes which are more highly expressed in Th1 cells
 XX compared with Th2 cells
 XX Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;
 Query Match 17.0%; Score 3.4; DB 1; Length 10;
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 9 AGTCT 13
 Db 1 AGACT 5
 RESULT 151
 ABK23710/c
 ID ABK23710 standard; DNA; 10 BP.
 XX AC ABK23710;
 XX 09-APR-2002 (first entry)
 XX Transcript tag DNA sequence #299 induced or suppressed by N-myc.
 DE Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
 KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
 KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.
 XX Homo sapiens.
 XX WO200185941-A2.
 XX 15-NOV-2001.
 XX

PF 11-MAY-2001; 2001WO-NL000361.
 XX 11-MAY-2000; 2000EP-00201698.
 PR 29-JUN-2000; 2000EP-00202284.
 XX (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.
 XX Versteeg R, Caron HN;
 PI WPI; 2002-066603/09.
 DR A new nucleic acid library of myc-dependent downstream genes capable of
 XX supporting a neoplastic characteristic of cancer is useful to find new
 XX therapies and diagnoses for cancer.
 XX Disclosure; Page 57; 69pp; English.
 XX The present invention relates to a nucleic acid library comprising myc-
 XX dependent downstream genes or their functional fragments essentially
 XX capable of supporting a neoplastic character of cancer such as growth,
 XX invasion or spread. These myc target or tag sequences are identified by
 XX SAGE (serial analysis of gene expression). The library is useful to find
 XX new diagnoses and treatments for cancer. The invention is also useful to
 XX enhance production of recombinant proteins in a production system with
 XX high expression of endogenous or transfected myc oncogenes. ABK23412-
 XX ABK23828 represent transcript tag DNA sequences that are activated or
 XX repressed by N-myc in human neuroblastoma
 XX Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;
 Query Match 17.0%; Score 3.4; DB 1; Length 10;
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 9 AGTCT 13
 Db 6 AGACT 2
 RESULT 152
 ADA00650/c
 ID ADA00650 standard; DNA; 10 BP.
 XX AC ADA00650;
 XX 06-NOV-2003 (first entry)
 XX Oligonucleotide microchip associated probe #3.
 DE discrete porous entity; microchip; cross contamination;
 KW chemical communication; co-polymerisation; ss; probe.
 XX Synthetic.
 XX Key Location/Qualifiers
 FT modified_base 1 /*tag= a
 FT /mod_base= OTHER
 FT /note= "OTHER= Fluorescein"
 XX US2003036063-A1.
 XX 20-FEB-2003.
 XX 15-AUG-2001; 2001US-00930865.
 XX 15-AUG-2001; 2001US-00930865.
 XX (MIRZ/) MIRZABEKOV A.
 XX (TIMO/) TIMOFEEV E.
 XX (VASI/) VASILISKOV V.
 XX Mirzabekov A, Timofeev E, Vasiliskov V;
 PI

XX WPI; 2003-605713/57.
 XX Making discrete porous entities containing synthetic and natural
 PT compounds, useful as biochips, involves contacting each molecule at
 PT individual positions on insert substrate with compound, and solidifying
 PT the formed individual mixtures.
 XX
 PS Example 2; Fig 5; 11pp; English.
 XX
 CC The invention describes a method of making discrete porous entities that
 CC each contain a different molecule. The method comprises: positioning each
 CC different molecule at individual positions on an inert substrate;
 CC contacting each positioned molecule with compound to form individual
 CC mixtures; and solidifying the mixtures. The inventive method provides
 CC microchips that minimise any chance for cross contamination and chemical
 CC communication between entities. The contents of the entities do not mix
 CC with each other. It provides microchips having higher sensitivity and
 CC much faster kinetics of hybridisation. It facilitates the production of
 CC co-polymerised gel pads that can be as small as 3 x 3 microns. This
 CC sequence represents a associated with a oligonucleotide microchip
 CC prepared by photoinduced simultaneous co-polymerisation of 4 allyl-
 CC oligonucleotides.
 XX
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
 Query Match 17.0%; Score 3.4; DB 1; Length 10;
 Best Local Similarity 80.0%; Pred. No. 1.5e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 9 AGTCT 13
 ||||
 Db 9 AGACT 5
 ||||
 RESULT 153
 ABV64201
 ID ABV64201 standard; cDNA; 11 BP.
 AC ABV64201;
 XX 21-OCT-2002 (first entry)
 DT Human skin EST 1987.
 DE
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX 11-JUL-2002.
 PD 20-DEC-2001; 2001WO-EP015179.
 PF 03-JAN-2001; 2001DE-01000127.
 XX (HENK) HENKEL KGAA.
 PA Petersohn D, Conradt M, Hofmann K;
 XX WPI; 2002-590638/63.
 DR In vitro identification of skin-expressed genes, useful for determining
 XX homeostasis and identifying cosmetic or pharmaceutical agents against
 XX e.g. skin cancer.
 PS Disclosure; Page 80; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically

CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 3 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
 Query Match 17.0%; Score 3.4; DB 1; Length 11;
 Best Local Similarity 80.0%; Pred. No. 1.6e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 9 AGTCT 13
 ||||
 Db 5 AGGCT 9
 ||||
 RESULT 154
 ABV71622
 ID ABV71622 standard; cDNA; 11 BP.
 AC ABV71622;
 XX 21-OCT-2002 (first entry)
 DT Human skin EST 9408.
 DE
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX 11-JUL-2002.
 PD 20-DEC-2001; 2001WO-EP015179.
 PF 03-JAN-2001; 2001DE-01000127.
 XX (HENK) HENKEL KGAA.
 PA Petersohn D, Conradt M, Hofmann K;
 XX WPI; 2002-590638/63.
 DR In vitro identification of skin-expressed genes, useful for determining
 XX homeostasis and identifying cosmetic or pharmaceutical agents against
 XX e.g. skin cancer.
 PS Claim 24; Page 303; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 3 A; 1 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 11;
 Best Local Similarity 80.0%; Pred. No. 1.6e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
 ||||
 Db 5 AGGCT 9

RESULT 155
 ABQ87397
 ID ABQ87397 standard; cDNA; 11 BP.
 XX
 AC ABQ87397;
 XX
 DT 10-SEP-2002 (first entry)
 XX
 DE Human skin stress/ageing related EST SEQ ID NO 1152.
 XX
 KW Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253773-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015178.
 XX
 PR 03-JAN-2001; 2001DE-01000121.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Petersohn D, Conradt M, Hofmann K;
 XX
 DR WPI; 2002-528865/56.
 XX
 XX Identifying genes involved in skin stress and aging, useful e.g. in
 PT screening for cosmetic or therapeutic agents, based on differential gene
 PT expression.
 XX
 PS Claim 8; Page 85; 325pp; German.
 XX
 CC The invention relates to identifying (M1) genes in vitro that, in humans
 CC or animals, are important for skin ageing and/or skin stress by serial
 CC analysis of gene expression between mixtures of transcribed and
 CC optionally translated, genetically encoded factors (A) obtained from
 CC young and aged skin, to identify that genes that show strong differential
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
 CC useful for: identifying markers of skin ageing and/or stress; determining
 CC skin ageing and/or stress; and identifying or determining the effects of
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present
 CC sequence is one of a group of human skin ageing/stress related expressed
 CC sequence tags (ABQ86246-ABQ87680) of the invention
 XX
 SQ Sequence 11 BP; 4 A; 1 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 11;
 Best Local Similarity 80.0%; Pred. No. 1.6e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
 ||||
 Db 6 AGACT 10

RESULT 156
 ABV65400
 ID ABV65400 standard; cDNA; 11 BP.
 XX
 AC ABV65400;
 XX
 DT 21-OCT-2002 (first entry)

XX Human skin EST 3186.
 DE
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Petersohn D, Conradt M, Hofmann K;
 XX
 DR WPI; 2002-590638/63.
 XX
 PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 PS Disclosure; Page 113; 1345pp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX
 SQ Sequence 11 BP; 4 A; 1 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 11;
 Best Local Similarity 80.0%; Pred. No. 1.6e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
 ||||
 Db 6 AGACT 10

RESULT 157
 ABN09352
 ID ABN09352 standard; DNA; 17 BP.
 XX
 AC ABN09352;
 XX
 DT 29-MAY-2002 (first entry)
 XX
 DE Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9344.
 XX
 KW Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
 KW skeletal muscle disorder; amplicon; screening; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200192524-A2.
 XX
 PD 06-DEC-2001.
 XX

PF 25-MAY-2001; 2001WO-US016981.
XX
XX 26-MAY-2000; 2000US-0207456P.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001US-0266860P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
PT or as specific biomolecule capture probes for surface-enhanced laser
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 9344; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
CC nucleic acids can be used as probes to detect, characterise and quantify
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
CC provide initial substrates for the recombinant engineering of hGDMPLP-1
CC protein variants having desired phenotypic improvements, and for
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
CC -1 proteins, as standards in assays used to determine the concentration
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
CC capture probes for surface-enhanced laser desorption ionisation, as
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
CC production, and in vaccines or for replacement therapy. The
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
CC disorder associated with the expression of hGDMPLP-1, in particular heart
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
CC The present sequence represents an oligomer used in the screening of the
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 6 A; 2 C; 8 G; 1 T; 0 U; 0 Other;
SQ
Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 9 AGTCT 13
DB 8 AGGCT 12
RESULT 158
ABN09353
ID ABN09353 standard; DNA; 17 BP.
XX
AC ABN09353;
XX
XX 29-MAY-2002 (first entry)
XX
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9345.

XX Human; genome-derived myosin-like protein 1; hGDMPLP-1; heart;
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
KW skeletal muscle disorder; amplicon; screening; ss.
XX
OS Homo sapiens.
XX
XX WO200192524-A2.
XX
PD 06-DEC-2001.
XX
XX 25-MAY-2001; 2001WO-US016981.
XX
XX 26-MAY-2000; 2000US-0207456P.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 30-JAN-2001; 2001WO-US000670.
PR 05-FEB-2001; 2001US-0266860P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX
XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
PT or as specific biomolecule capture probes for surface-enhanced laser
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
XX Disclosure; SEQ ID NO 9344; 214pp; English.
XX
XX The present invention describes a human genome-derived myosin-like
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
CC nucleic acids can be used as probes to detect, characterise and quantify
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
CC provide initial substrates for the recombinant engineering of hGDMPLP-1
CC protein variants having desired phenotypic improvements, and for
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
CC -1 proteins, as standards in assays used to determine the concentration
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
CC capture probes for surface-enhanced laser desorption ionisation, as
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
CC production, and in vaccines or for replacement therapy. The
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
CC disorder associated with the expression of hGDMPLP-1, in particular heart
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
CC The present sequence represents an oligomer used in the screening of the
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequence
XX
XX Sequence 17 BP; 6 A; 2 C; 8 G; 1 T; 0 U; 0 Other;
SQ
Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 9 AGTCT 13
DB 8 AGGCT 12
RESULT 158
ABN09353
ID ABN09353 standard; DNA; 17 BP.
XX
AC ABN09353;
XX
XX 29-MAY-2002 (first entry)
XX
XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9345.

RESULT 159
ABN09354
ID ABN09354 standard; DNA; 17 BP.
XX AC
XX AC ABN09354;
XX DT
XX DT 29-MAY-2002 (first entry)
XX DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:9346.
XX KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
KW skeletal muscle disorder; amplicon; screening; ss.
XX OS
XX OS Homo sapiens.
XX PN W0200192524-A2.
XX XX
XX PD 06-DEC-2001.
XX XX
XX PF 25-MAY-2001; 2001WO-US016981.
XX PR 26-MAY-2000; 2000US-0207456P.
XX PR 21-SEP-2000; 2000US-0234687P.
XX PR 27-SEP-2000; 2000US-0236359P.
XX PR 04-OCT-2000; 2000GB-00024263.
XX PR 30-JAN-2001; 2001WO-US000661.
XX PR 30-JAN-2001; 2001WO-US000662.
XX PR 30-JAN-2001; 2001WO-US000663.
XX PR 30-JAN-2001; 2001WO-US000664.
XX PR 30-JAN-2001; 2001WO-US000665.
XX PR 30-JAN-2001; 2001WO-US000666.
XX PR 30-JAN-2001; 2001WO-US000667.
XX PR 30-JAN-2001; 2001WO-US000668.
XX PR 30-JAN-2001; 2001WO-US000669.
XX PR 30-JAN-2001; 2001WO-US000670.
XX PR 05-FEB-2001; 2001US-0266860P.
XX PA (ABOM-) AEOMICA INC.
XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX WPI; 2002-179446/23.
XX DT
XX PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
PT or as specific biomolecule capture probes for surface-enhanced laser
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX PS
XX PS Disclosure; SEQ ID NO 9346; 214pp; English.
XX CC
XX CC The present invention describes a human genome-derived myosin-like
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
CC nucleic acids can be used as probes to detect, characterise and quantify
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
CC provide initial substrates for the recombinant engineering of hGDMPLP-1
CC protein variants having desired phenotypic improvements, and for
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
CC -1 proteins, as standards in assays used to determine the concentration
CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
CC capture probes for surface-enhanced laser desorption ionisation, as
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
CC production, and in vaccines or for replacement therapy. The
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
CC disorder associated with the expression of hGDMPLP-1, in particular heart
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
CC The present sequence represents an oligomer used in the screening of the
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO

CC at ftp.wipo.int/pub/published_pct_sequence
XX SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;
Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 1.3e+02;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 9 AGTCT 13
Db 6 AGGCT 10
RESULT 160
ACN72443
ID ACN72443 standard; DNA; 17 BP.
XX AC
XX AC ACN72443;
XX DT 02-DEC-2004 (first entry)
XX DE Human GDMPLP-1 probe SEQ ID NO:9345.
XX KW Human; ss; probe; myosin-like protein-1; hGDMPLP-1;
KW hGDMPLP-1 agonist hGDMPLP antagonist; hGDMPLP inhibitor; heart disorder;
KW skeletal muscle function.
XX OS
XX OS Homo sapiens.
XX PN US2004137589-A1.
XX PD 15-JUL-2004.
XX PF 26-NOV-2003; 2003US-00723361.
XX PR 26-MAY-2000; 2000US-0207456P.
XX PR 21-SEP-2000; 2000US-0234687P.
XX PR 27-SEP-2000; 2000US-0236359P.
XX PR 04-OCT-2000; 2000GB-00024263.
XX PR 30-JAN-2001; 2001WO-US000661.
XX PR 30-JAN-2001; 2001WO-US000662.
XX PR 30-JAN-2001; 2001WO-US000663.
XX PR 30-JAN-2001; 2001WO-US000664.
XX PR 30-JAN-2001; 2001WO-US000665.
XX PR 30-JAN-2001; 2001WO-US000666.
XX PR 30-JAN-2001; 2001WO-US000667.
XX PR 30-JAN-2001; 2001WO-US000668.
XX PR 30-JAN-2001; 2001WO-US000669.
XX PR 30-JAN-2001; 2001WO-US000670.
XX PR 05-FEB-2001; 2001US-0266860P.
XX PR 25-MAY-2001; 2001US-00866108.
XX PA (GUY/) GU Y.
XX PA (JIY/) JI Y.
XX PA (PENN/) PENN S G.
XX PA (HANZ/) HANZEL D K.
XX PA (RANK/) RANK D.
XX PA (CHEN/) CHEN W.
XX PA (SHAN/) SHANNON M B.
XX PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;
XX WPI; 2004-533378/51.
XX DT
XX PT Novel myosin-like protein-1, useful for treating or preventing disorder
PT associated with decreased expression or activity of human genome-derived
PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle
PT function.
XX PS
XX PS Disclosure; SEQ ID NO 9345; 0pp; English.
XX CC
XX CC The invention relates to a novel polypeptide (I) comprising a sequence
CC (SI) of myosin-like protein-1 (hGDMPLP-1) having 2568 amino acids fully

CC defined in the specification, a fragment of at least 8 amino acids of
 CC (S1), 95% deviation from (S1) which are conservative substitutions, and
 CC 65% identity to (S1). A polypeptide of the invention acts as an agonist or
 CC antagonist of hGDMLP-1, or as an inhibitor of hGDMLP-1 activity. A
 CC pharmaceutical composition of the invention is useful for treating or
 CC preventing a disorder associated with decreased expression or activity of
 CC hGDMLP-1, such as a disorder of heart and/or skeletal muscle function.
 CC The present sequence represents a 17-mer nucleotide, used in the
 CC invention for scanning the sequence represented in ACN63103
 XX
 SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 17;

Best Local Similarity 80.0%; Pred. No. 1.3e+02;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13

Db 7 AGGCT 11

RESULT 161

ACN72442

ID ACN72442 standard; DNA; 17 BP.

AC ACN72442;

DT 02-DEC-2004 (first entry)

DE Human GDMLP-1 probe SEQ ID NO:9344.

XX Human; ss; probe; myosin-like protein-1; hGDMLP-1;

KW hGDMLP-1 agonist hGDMLP antagonist; hGDMLP inhibitor; heart disorder;

KW skeletal muscle function.

XX Homo sapiens.

XX US2004137589-A1.

XX 15-JUL-2004.

XX 26-NOV-2003; 2003US-00723361.

XX 26-MAY-2000; 2000US-0207456P.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX 30-JAN-2001; 2001WO-US000661.

XX 30-JAN-2001; 2001WO-US000662.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

XX 30-JAN-2001; 2001WO-US000665.

XX 30-JAN-2001; 2001WO-US000666.

XX 30-JAN-2001; 2001WO-US000667.

XX 30-JAN-2001; 2001WO-US000668.

XX 30-JAN-2001; 2001WO-US000669.

XX 30-JAN-2001; 2001WO-US000670.

XX 05-FEB-2001; 2001US-0266860P.

XX 25-MAY-2001; 2001US-00866108.

XX (GUY/) GU Y.

XX (JIY/) JI Y.

XX (PENN/) PENN S G.

XX (HANZ/) HANZEL D K.

XX (RANK/) RANK D.

XX (CHEN/) CHEN W.

XX (SHAN/) SHANNON M E.

PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;

XX WPI; 2004-533378/51.

XX Novel myosin-like protein-1, useful for treating or preventing disorder

PT associated with decreased expression or activity of human genome-derived
 PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle
 PT function.
 XX

PS Disclosure; SEQ ID NO 9344; Opp; English.

XX The invention relates to a novel polypeptide (I) comprising a sequence
 CC (S1) of myosin-like protein-1 (hGDMLP-1) having 2568 amino acids fully
 CC defined in the specification, a fragment of at least 8 amino acids of
 CC (S1), 95% deviation from (S1) which are conservative substitutions, and
 CC 65% identity to (S1). A polypeptide of the invention acts as an agonist or
 CC antagonist of hGDMLP-1, or as an inhibitor of hGDMLP-1 activity. A
 CC pharmaceutical composition of the invention is useful for treating or
 CC preventing a disorder associated with decreased expression or activity of
 CC hGDMLP-1, such as a disorder of heart and/or skeletal muscle function.
 CC The present sequence represents a 17-mer nucleotide, used in the
 CC invention for scanning the sequence represented in ACN63103
 XX

SQ Sequence 17 BP; 6 A; 2 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 17.0%; Score 3.4; DB 1; Length 17;

Best Local Similarity 80.0%; Pred. No. 1.3e+02;

Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13

Db 8 AGGCT 12

RESULT 162

ACN72444

ID ACN72444 standard; DNA; 17 BP.

XX ACN72444;

XX 02-DEC-2004 (first entry)

XX Human GDMLP-1 probe SEQ ID NO:9346.

XX Human; ss; probe; myosin-like protein-1; hGDMLP-1;

KW hGDMLP-1 agonist hGDMLP antagonist; hGDMLP inhibitor; heart disorder;

KW skeletal muscle function.

XX Homo sapiens.

XX US2004137589-A1.

XX 15-JUL-2004.

XX 26-NOV-2003; 2003US-00723361.

XX 26-MAY-2000; 2000US-0207456P.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX 30-JAN-2001; 2001WO-US000661.

XX 30-JAN-2001; 2001WO-US000662.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

XX 30-JAN-2001; 2001WO-US000665.

XX 30-JAN-2001; 2001WO-US000666.

XX 30-JAN-2001; 2001WO-US000667.

XX 30-JAN-2001; 2001WO-US000668.

XX 30-JAN-2001; 2001WO-US000669.

XX 30-JAN-2001; 2001WO-US000670.

XX 05-FEB-2001; 2001US-0266860P.

XX 25-MAY-2001; 2001US-00866108.

XX (GUY/) GU Y.

XX (JIY/) JI Y.

XX (PENN/) PENN S G.

XX (HANZ/) HANZEL D K.

XX (RANK/) RANK D.

PA (CHEN/) CHEN W.
 PA (SHAN/) SHANNON M E.
 XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank D, Chen W, Shannon ME;
 XX WPI; 2004-533378/51.
 DR Novel myosin-like protein-1, useful for treating or preventing disorder
 PT associated with decreased expression or activity of human genome-derived
 PT myosin-like protein-1 such as disorder of heart and/or skeletal muscle
 PT function.
 XX
 PS Disclosure; SEQ ID NO 9346; Opp; English.
 XX
 CC The invention relates to a novel polypeptide (I) comprising a sequence
 CC (S1) of myosin-like protein-1 (hGDMLP-1) having 2568 amino acids fully
 CC defined in the specification, a fragment of at least 8 amino acids of
 CC (S1), 95% deviation from (S1) which are conservative substitutions, and
 CC 65% identity to (S1). A polypeptide of the invention acts as a agonist or
 CC antagonist of hGDMLP-1, or as an inhibitor of hGDMLP-1 activity. A
 CC pharmaceutical composition of the invention is useful for treating or
 CC preventing a disorder associated with decreased expression or activity of
 CC hGDMLP-1, such as a disorder of heart and/or skeletal muscle function.
 CC The present sequence represents a 17-mer nucleotide, used in the
 CC invention for scanning the sequence represented in ACN63103
 XX
 SQ Sequence 17 BP; 5 A; 3 C; 8 G; 1 T; 0 U; 0 Other;
 Query Match 17.0%; Score 3.4; DB 1; Length 17;
 Best Local Similarity 80.0%; Pred. No. 1.3e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 9 AGTCT 13
 DB ||||
 6 AGGCT 10
 RESULT 163
 ADP69113/c
 ID ADP69113 standard; DNA; 20 BP.
 XX
 AC ADP69113;
 XX
 DT 09-SEP-2004 (first entry)
 DE Human mitoNEET-specific antisense oligonucleotide #7.
 XX
 KW human; antisense oligonucleotide; mitochondrial membrane;
 KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
 KW immunological disorder; cardiovascular disorder; including hypertension;
 KW neurological disorders; ischaemia; reperfusion; ss;
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
 XX
 OS Homo sapiens.
 XX
 PN WO2004053060-A2.
 XX
 PD 24-JUN-2004.
 XX
 PF 25-NOV-2003; 2003WO-US037621.
 XX
 PR 06-DEC-2002; 2002US-0431529P.
 XX
 PA (PHAA) PHARMACIA CORP.
 XX
 PI Colca JR;
 XX
 DR WPI; 2004-468836/44.
 XX
 PT New antisense oligonucleotides encoding mitoNEET, useful for modulating
 PT mitoNEET expression or for treating diseases associated with mitoNEET,
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.
 XX
 XX

PS Claim 4; SEQ ID NO 7; 226pp; English.
 XX
 CC The invention comprises antisense oligonucleotides that are targeted to
 CC the nucleic acids encoding a family of human proteins from mitochondrial
 CC membranes, which bind insulin sensitising, antidiabetic
 CC thiazolidinediones (referred to as: mitoNEET). The antisense
 CC oligonucleotides of the invention are useful for modulating mitoNEET
 CC expression and for treating diseases or conditions associated with
 CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular
 CC disorders including hypertension, neurological disorders, and
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a
 CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
 CC phosphorothioate backbone.
 XX
 SQ Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;
 Query Match 17.0%; Score 3.4; DB 1; Length 20;
 Best Local Similarity 80.0%; Pred. No. 1.1e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 9 AGTCT 13
 DB ||||
 10 AGACT 6
 RESULT 164
 ADP69111/c
 ID ADP69111 standard; DNA; 20 BP.
 XX
 AC ADP69111;
 XX
 DT 09-SEP-2004 (first entry)
 DE Human mitoNEET-specific antisense oligonucleotide #5.
 XX
 KW human; antisense oligonucleotide; mitochondrial membrane;
 KW insulin sensitising antidiabetic thiazolidinediones; mitoNEET; diabetes;
 KW immunological disorder; cardiovascular disorder; including hypertension;
 KW neurological disorders; ischaemia; reperfusion; ss;
 KW 2'-methoxyethyl gapmer; 2'-MOE gapmer; phosphorothioate backbone.
 XX
 OS Homo sapiens.
 XX
 PN WO2004053060-A2.
 XX
 PD 24-JUN-2004.
 XX
 PF 25-NOV-2003; 2003WO-US037621.
 XX
 PR 06-DEC-2002; 2002US-0431529P.
 XX
 PA (PHAA) PHARMACIA CORP.
 XX
 PI Colca JR;
 XX
 DR WPI; 2004-468836/44.
 XX
 PT New antisense oligonucleotides encoding mitoNEET, useful for modulating
 PT mitoNEET expression or for treating diseases associated with mitoNEET,
 PT e.g. diabetes, immunological disorders or cardiovascular disorders.
 XX
 XX
 PS Claim 4; SEQ ID NO 5; 226pp; English.
 XX
 CC The invention comprises antisense oligonucleotides that are targeted to
 CC the nucleic acids encoding a family of human proteins from mitochondrial
 CC membranes, which bind insulin sensitising, antidiabetic
 CC thiazolidinediones (referred to as: mitoNEET). The antisense
 CC oligonucleotides of the invention are useful for modulating mitoNEET
 CC expression and for treating diseases or conditions associated with
 CC mitoNEET, such as: diabetes, immunological disorders, cardiovascular
 CC disorders including hypertension, neurological disorders, and
 CC ischaemia/reperfusion injuries. The present DNA sequence represents a

CC mitoNEET-specific antisense oligonucleotide of the invention. NOTE: The
 CC present sequence is a 2'-methoxyethyl (2'-MOE) gapmer with a
 CC phosphorothioate backbone.

XX SQ Sequence 20 BP; 2 A; 6 C; 3 G; 9 T; 0 U; 0 Other;
 Query Match 17.0%; Score 3.4; DB 1; Length 20;
 Best Local Similarity 80.0%; Pred. No. 1.1e+02;
 Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13
 || ||
 Db 9 AGACT 5

RESULT 165
 AAT09601/c
 ID AAT09601 standard; DNA; 8 BP.
 XX AC AAT09601;
 XX AC AAT09601;
 XX DT 25-MAR-2003 (revised)
 XX DT 25-JUN-1996 (first entry)
 XX 3'-primer used for characterisation of human biological samples.
 XX 3'-primer; human; protein coding region; PCR primer kit;
 KW characterisation; biological samples; PCR amplification; indexing;
 KW identification; cloning; analysis; genes; genome mapping;
 KW disease diagnosis; ss.
 XX OS Synthetic.
 XX PN WO9531574-A1.
 XX PD 23-NOV-1995.
 XX PF 12-MAY-1995; 95WO-US006032.
 XX PR 16-MAY-1994; 94US-00242887.
 XX PA (BGHM) BRIGHAM & WOMENS HOSPITAL.
 XX PI Lopeznieto CE, Nigam SK;
 XX PI WPI; 1996-010958/01.
 XX DR WPI; 1996-010958/01.
 XX PT Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.
 XX PS Claim 5; Page 44; 72pp; English.
 XX CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
 CC 2003 to correct PI field.)
 XX SQ Sequence 8 BP; 1 A; 3 C; 2 G; 2 T; 0 U; 0 Other;
 Query Match 16.0%; Score 3.2; DB 1; Length 8;
 Best Local Similarity 62.5%; Pred. No. 2.8e+02;
 Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 CTCGAGTC 12
 || || ||
 Db 8 CTGGAGAC 1

RESULT 166
 AAT09436
 ID AAT09436 standard; DNA; 8 BP.
 XX AC AAT09436;
 XX AC AAT09436;
 XX DT 25-MAR-2003 (revised)
 XX DT 21-JUN-1996 (first entry)
 XX 5'-primer used for characterisation of human biological samples.
 XX 5'-primer; human; protein coding region; PCR primer kit;
 KW characterisation; biological samples; PCR amplification; indexing;
 KW identification; cloning; analysis; genes; genome mapping;
 KW disease diagnosis; ss.
 XX OS Synthetic.
 XX PN WO9531574-A1.
 XX PD 23-NOV-1995.
 XX PF 12-MAY-1995; 95WO-US006032.
 XX PR 16-MAY-1994; 94US-00242887.
 XX PA (BGHM) BRIGHAM & WOMENS HOSPITAL.
 XX PI Lopeznieto CE, Nigam SK;
 XX PI WPI; 1996-010958/01.
 XX DR WPI; 1996-010958/01.
 XX PT Characterisation of nucleotide sequences using primer pairs - by PCR
 PT amplification and indexing of amplification prods. w.r.t. primers used
 PT for genome mapping and disease diagnosis.
 XX PS Claim 5; Page 44; 72pp; English.
 XX CC The 5'-primers AAT09358-508, and the 3'-primers AAT09509-659, which
 CC target human protein coding regions, together comprise a PCR primer kit
 CC with 1361 possible primer pairs. The kit is used in a new method for the
 CC characterisation of nucleic acid sequences obtd. from human biological
 CC samples, which comprises PCR amplification and indexing of the prods.
 CC w.r.t the primer pair that hybridised to its delineating subsequences.
 CC The method may be used in the identification, cloning and analysis of
 CC genes, e.g. in genome mapping, and disease diagnosis. (Updated on 25-MAR-
 CC 2003 to correct PI field.)
 XX SQ Sequence 8 BP; 2 A; 2 C; 3 G; 1 T; 0 U; 0 Other;
 Query Match 16.0%; Score 3.2; DB 1; Length 8;
 Best Local Similarity 62.5%; Pred. No. 2.8e+02;
 Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 CTCGAGTC 12
 || || ||
 Db 1 CTGGAGAC 8

RESULT 167
 AAZ78224
 ID AAZ78224 standard; DNA; 10 BP.
 XX AC AAZ78224;
 XX AC AAZ78224;
 XX DT 10-APR-2000 (first entry)
 XX DE Human dendritic cell SAGE tag, SEQ ID NO:652.
 XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
 KW APC; monocyte-derived dendritic cell; differential gene expression;
 KW immunostimulatory cofactor; costimulatory factor; CTL;

cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
Homo sapiens.
WO9965924-A2.
23-DEC-1999.
18-JUN-1999; 99WO-US013800.
19-JUN-1998; 98US-0089833P.
19-JUN-1998; 98US-0089844P.
19-JUN-1998; 98US-0089853P.
19-JUN-1998; 98US-0089876P.
19-JUN-1998; 98US-0089991P.
19-JUN-1998; 98US-0089992P.
19-JUN-1998; 98US-0089993P.
19-JUN-1998; 98US-0089994P.
19-JUN-1998; 98US-0089997P.
19-JUN-1998; 98US-0089999P.
19-JUN-1998; 98US-0090000P.
19-JUN-1998; 98US-0090035P.
19-JUN-1998; 98US-0090036P.
19-JUN-1998; 98US-0090039P.
19-JUN-1998; 98US-0090040P.
19-JUN-1998; 98US-0090041P.
19-JUN-1998; 98US-0090042P.
19-JUN-1998; 98US-0090043P.
19-JUN-1998; 98US-0090044P.
19-JUN-1998; 98US-0090045P.
19-JUN-1998; 98US-0090047P.
19-JUN-1998; 98US-0090048P.
19-JUN-1998; 98US-0090072P.
19-JUN-1998; 98US-0090076P.
19-JUN-1998; 98US-0090077P.
19-JUN-1998; 98US-0090078P.
19-JUN-1998; 98US-0090079P.
19-JUN-1998; 98US-0090080P.
08-DEC-1998; 98US-0111715P.
(GENZ) GENZYME CORP.
(ROBE/) ROBERTS B L.
(SHAN/) SHANKARA S.
Roberts BL, Shankara S;
WPI; 2000-106077/09.
Isolated polynucleotides differentially expressed in antigen-presenting cells, useful in gene vaccines against cancer.
Claim 1; Page 84; 130pp; English.
Sequences AA27573-279709 represent SAGE (serial analysis of gene expression) tags used to identify mRNA transcripts encoding immunostimulatory cofactor proteins which are preferentially or differentially expressed in monocyte-derived dendritic cells compared with monocytes. Some of the transcripts correspond to known genes or ESTs (expressed sequence tags) which were previously unknown to be preferentially or differentially expressed in dendritic cells, while other transcripts correspond to novel genes. Antigen-presenting cell (APC)-associated costimulatory factors play an important role in the activation of the cytotoxic immune response, particularly against tumour cells. Tumour antigen presentation via the MHC (major histocompatibility complex) and subsequent recognition by T-cell receptors is alone insufficient to activate a robust cytotoxic immune response that can lyse the tumour cells, immunostimulatory cofactors also being required for efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid sequences identified using the SAGE tags have several potential uses. They may be used in vaccines to induce an immune response, particularly against a tumour antigen; to modulate the genotype of an APC; to screen for agents that modulate expression of differentially expressed genes in an APC; and as hybridisation probes/amplification primers for the

diagnosis, prognosis and monitoring of diseases related to abnormal expression of these genes. Detection of the dendritic cell differentially expressed genes, or of their encoded proteins, can be used to identify cells as belonging to the monocyte lineage. Cells containing these genes can be used in active immunotherapy (or to stimulate production of a population of antigen-specific effector cells) and vectors containing them are used in gene therapy. Co-administration of tumour antigens and APC-associated costimulatory factors ensures adequate antigen presentation to endogenous APCs and upregulates the APCs for the presentation of co-stimulatory signals, migration to T cell-rich sites, secretion of T cell growth factors and secretion of chemokines for recruitment of immune effector cells
Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 U; 0 Other;
Query Match 16.0%; Score 3.2; DB 1; Length 10;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 5 CTCGAGTC 12
|| || ||
Db 2 CTGGAGCC 9
RESULT 168
AAZ80874
ID AAZ80874 standard; DNA; 10 BP.
XX AC AAZ80874;
XX DT 07-APR-2000 (first entry)
XX DE Metastatic breast tumour cell upregulated transcript tag #108.
XX KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX KW non-metastatic breast tumour tissue; gene therapy; anticancer;
XX KW antimetastatic; vaccine; diagnosis; ss.
XX OS Homo sapiens.
XX PN WO9965928-A2.
XX PD 23-DEC-1999.
XX PF 18-JUN-1999; 99WO-US013647.
XX PR 19-JUN-1998; 98US-0089853P.
XX PR 19-JUN-1998; 98US-0089997P.
XX PR 19-JUN-1998; 98US-0090039P.
XX PR 19-JUN-1998; 98US-0090040P.
XX PR 19-JUN-1998; 98US-0090041P.
XX PA (GENZ) GENZYME CORP.
XX PA (ROBE/) ROBERTS B L.
XX PA (SHAN/) SHANKARA S.
XX PI Roberts BL, Shankara S;
XX WPI; 2000-106079/09.
XX Isolated polynucleotides differentially expressed between metastatic and non-metastatic breast cancer cells, useful for diagnosis, prevention and treatment of cancer.
XX Claim 1; Page 61; 219pp; English.
AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts that are preferentially transcribed in the metastatic breast tumour tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942 to AAZ86677 represent tags corresponding to distinct transcripts that are preferentially transcribed in the primary or non-metastatic breast tumour tissue (i.e. are downregulated in metastatic breast tumour cells). These transcripts can be used for diagnosis, prognosis, monitoring and

CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy

SQ Sequence 10 BP; 2 A; 4 C; 3 G; 1 T; 0 U; 0 Other;
 Query Match 16.0%; Score 3.2; DB 1; Length 10;
 Best Local Similarity 62.5%; Pred. No. 1.6e+02;
 Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 5 CTCGATC 12
 || || ||
 Db 3 CTGAGAC 10

RESULT 169
 AAS95346/c
 ID AAS95346 standard; DNA; 10 BP.

AC AAS95346;

DT 14-FEB-2002 (first entry)

DE Human Histamine H2 receptor ASO primer extension PCR primer #6.

XX Human; histamine H2 receptor; HRH2; ss; PCR primer; polymorphic variant;
 KW haplotyping; genotyping; acid-peptic disorder; mammary cancer;
 KW gastric carcinoma; allele specific oligonucleotide; ASO;
 KW primer extension.

XX Homo sapiens.

XX WO200179220-A2.

XX 25-OCT-2001.

XX 12-APR-2001; 2001WO-US011941.

XX 12-APR-2000; 2000US-0196406P.

PA (GENA-) GENAISSANCE PHARM INC.

XX Chew A, Choi JY, Koshy B;

XX WPI; 2002-055249/07.

XX New human histamine H2 receptor (HRH2) isogene polymorphic variants,
 PT useful in expressing HRH2 protein for use in screening for candidate
 PT drugs to treat diseases related to HRH2 activity.

XX Claim 17; Page 14; 62pp; English.

XX The invention relates to an isolated polynucleotide comprising a
 CC polymorphic variant of a reference sequence for human Histamine H2
 CC receptor (HRH2) gene, its fragment or complement, and the polymorphic
 CC variant contains an HRH2 isogene defined by a haplotype listed in the
 CC specification. Also disclosed are methods for haplotyping and genotyping
 CC the HRH2 gene of an individual, a method for predicting a haplotype pair
 CC for the HRH2 gene of an individual, identifying an association between a
 CC trait and at least one haplotype or haplotype pair of HRH2 gene, allele
 CC specific oligonucleotides (ASO) for performing the haplotyping/
 CC genotyping, a recombinant nonhuman organisms transformed or transfected

CC with the polymorphic variant, the protein expressed by the polymorphic
 CC variant, an antibody raised against the protein and screening for drugs
 CC targeting the polypeptide by contacting HRH2 polymorphic variant with a
 CC candidate agent and assaying for binding activity. The polymorphisms are
 CC useful for studying the biological function of HRH2 gene, as well as in
 CC identifying drugs targeting this protein for the treatment of disorder
 CC related to its abnormal expression or function. The polymorphic variants
 CC may be used in screening for compounds targeting CALM1 to treat a
 CC specific condition or disease predicted to be associated with HRH2
 CC activity, in studying the effect of the variation on the biological
 CC activity of HRH2 as well as on the binding affinity of candidate drugs
 CC targeting HRH2 for the treatment of acid-peptic disorders of the
 CC gastrointestinal tract and also possibly human mammary cancer and gastric
 CC carcinoma. The polymorphism and haplotype data can also be used for
 CC validating whether HRH2 is a suitable drug target for drugs to treat acid
 CC -peptic disorders of the gastrointestinal tract, screening of such drugs
 CC and reducing bias in clinical trials of such drugs. The present sequence
 CC is the 3' terminus of an ASO primer extension PCR primer used to detect
 CC the polymorphisms of the invention

SQ Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 16.0%; Score 3.2; DB 1; Length 10;
 Best Local Similarity 62.5%; Pred. No. 1.6e+02;
 Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 GTCTCCAG 10
 | | | |
 Db 8 GACTGGAG 1

RESULT 170

ABV70379

ID ABV70379 standard; cDNA; 11 BP.

AC ABV70379;

DT 21-OCT-2002 (first entry)

DE Human skin EST 8165.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhaeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

XX (HENK) HENKEL KGAA.

XX Petersohn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.

XX Claim 24; Page 261; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or

CC promotes skin homeostasis or that can be used for treating skin disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma; CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the CC skin. The present sequence is that of a human expressed sequence tag CC (EST) of the invention

XX
SQ Sequence 11 BP; 3 A; 4 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 16.0%; Score 3.2; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12
Db 3 CTGGAGAC 10
||| |||

RESULT 171
ABV62958
ID ABV62958 standard; cDNA; 11 BP.
XX
AC ABV62958;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 744.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 45; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention

XX
SQ Sequence 11 BP; 3 A; 4 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 16.0%; Score 3.2; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 1.6e+02;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12
Db 3 CTGGAGAC 10
||| |||

RESULT 172
AAV05484/C
ID AAV05484 standard; DNA; 10 BP.
XX
AC AAV05484;
XX
DT 01-MAY-1998 (first entry)
XX
DE BsmAI restriction recognition site.
XX
KW Amplification; nucleic acid sequence; SDA; recognition site;
KW strand displacement amplification; restriction endonuclease;
KW alpha-boronated deoxynucleoside triphosphate; BsaI;
KW hemimodified restriction site; ds.
XX
OS Synthetic.
XX
PN US5702926-A.
XX
PD 30-DEC-1997.
XX
PF 22-AUG-1996; 96US-00701270.
XX
PR 22-AUG-1996; 96US-00701270.
XX
PA (BECT) BECTON DICKINSON CO.
XX
PI Walker GT, Fraiser MS;
XX
DR WPI; 1998-076416/07.
XX
PT Strand displacement amplification of nucleic acids - using alpha-
PT boronated deoxy-nucleoside tri-phosphate to create nickable restriction
PT site.
XX
PS Disclosure; Col 6; 7pp; English.
XX
CC A novel method for amplifying a target nucleic acid sequence by strand
CC displacement amplification (SDA) comprises, amplifying the target
CC sequence in an SDA reaction in which an alpha-boronated deoxynucleoside
CC triphosphate is incorporated into a double stranded recognition site for
CC a restriction endonuclease, e.g. the present sequence. This produces a
CC hemimodified restriction site that is nicked by the restriction
CC endonuclease during the SDA reaction. Most alpha-boronated dNTP will
CC mimic a corresponding alpha-thiolated dNTP in essentially all respects as
CC regards SDA, though amplification efficiency is reduced in SDA reactions
CC optimised for alpha-thiolated dNTP

XX
SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 15.0%; Score 3; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTG 3
Db 8 TTG 6
||| |||

RESULT 173
AAF41789
ID AAF41789 standard; DNA; 10 BP.
XX
AC AAF41789;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8528.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
OS
XX WO200077214-A2.
PN
XX
XX 21-DEC-2000.
PD
XX
XX 14-JUN-2000; 2000WO-US016223.
PF
XX
XX 16-JUN-1999; 99US-00335032.
PR
XX
XX (UYJO) UNIV JOHNS HOPKINS.
PA
XX
XX Velculescu V, Vogelstein B, Kinzler K;
PI WPI; 2001-061874/07.
DR
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
PT
XX
XX Example; Page 304; 419pp; English.
PS
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 4 A; 0 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 15.0%; Score 3; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 9 AGT 11
Db |||
7 AGT 9
RESULT 174
AAF69645
ID AAF69645 standard; DNA; 10 BP.
XX
XX AAF69645;
XX

DT 18-APR-2001 (first entry)
XX
XX Human IL4Ralpha gene probe #285.
DE
XX Polymorphism; human; interleukin 4 receptor-alpha; IL4R-alpha;
KW allergic disease; probe; ss.
KW
XX Homo sapiens.
OS
XX WO200104270-A1.
PN
XX 18-JAN-2001.
PD
XX 13-JUL-2000; 2000WO-US019094.
PF
XX 13-JUL-1999; 99US-0143435P.
PR
XX (GENA-) GENAISSANCE PHARM INC.
XX
XX Chew A, Denton RR, Duda A, Nandabalan K, Stephens JC;
PI Windemuth AK;
PI
XX WPI; 2001-103078/11.
DR
XX New isolated polynucleotide useful for the identification of therapeutics
XX in allergic diseases is new.
PT
XX
XX Disclosure; Page 46; 188pp; English.
PS
XX
CC The present invention relates to polymorphisms of the human interleukin 4
CC receptor-alpha gene (IL4R-alpha; see AAF57718 for the reference
CC sequence). Polynucleotides comprising polymorphic gene variants are
CC useful for therapeutic purposes. For example, where a patient may benefit
CC from expression of a particular IL4Ralpha protein isoform, an expression
CC vector encoding the isoform may be administered to the patient. It may
CC desirable to decrease or block expression of a particular IL4Ralpha
CC isogene, which may be done by turning off by transforming a targeted
CC organ, tissue or cell population with an expression vector that expresses
CC high levels of untranslatable mRNA for the isogene. Specific therapeutics
CC identified by these methods may be useful for allergic diseases. The
CC present sequence is a probe for human IL4R-alpha
XX
SQ Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 15.0%; Score 3; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.6e+02;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 8 CAG 10
Db |||
7 CAG 9
RESULT 175
AAA81188
ID AAA81188 standard; DNA; 8 BP.
XX
XX AAA81188;
AC
XX
XX 24-NOV-2000 (first entry)
DT
XX
XX A. thaliana primer walking octamer SEQ ID NO: 501.
DE
XX
XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.
KW Arabidopsis thaliana.
OS
XX US6083695-A.
PN
XX 04-JUL-2000.
PD
XX 21-MAY-1997; 97US-00859954.
PF
XX

PR 15-APR-1996; 96US-00632782.
 XX (UYHO-) UNIV HOUSTON.
 PA (HARD/) HARDIN S H.
 XX
 XX Hardin PE, Hardin SH, Homayouni R;
 PI
 DR WPI; 2000-474852/41.
 XX
 XX Sequencing an unknown DNA molecule for the polymerase chain reaction and
 PT other primer processes comprises primer walking of octamer
 PT oligonucleotides.
 XX
 XX Claim 1; Col 277-278; 161pp; English.
 XX
 XX This invention describes a novel method for sequencing an unknown DNA
 CC molecule which comprises selecting a library primer from an octamer
 CC oligonucleotide library consisting of 48 8-bp sequences and corresponding
 CC complementary sequences, where the library primer is complementary to a
 CC known sequence adjacent to the unknown sequence or is complementary to a
 CC sequence in a known extension product. The method is useful for DNA
 CC nucleotide sequencing, in PCR, and in other processes which make use of
 CC primers. The octamers are used to identify coding sequences. Primer
 CC walking using the octamer libraries is advantageous over other sequencing
 CC methods because it does not require multiple cloning steps nor subsequent
 CC template preparations, and it is a directed and methodical approach.
 CC AAA80688-A81253 represent the octamer primers used in the primer walking
 CC method of the invention
 XX
 XX Sequence 8 BP; 3 A; 1 C; 3 G; 1 T; 0 U; 0 Other;
 SQ
 Query Match 14.0%; Score 2.8; DB 1; Length 8;
 Best Local Similarity 66.7%; Pred. No. 2.8e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 5 CTCGAG 10
 Db |||||
 2 CTGGAG 7
 RESULT 176
 ADH69419/C
 ID ADH69419 standard; DNA; 10 BP.
 XX
 AC ADH69419;
 XX
 XX 25-MAR-2004 (first entry)
 DT
 XX Exon 4/5 junction #2of Blue pigment gene.
 DE
 XX Human; Blue pigment gene; retina specific gene; ds; cancer; infection;
 KW cytostatic; GAWTS; genomic amplification with transcript sequencing;
 KW RAWTS; RNA amplification with transcript sequencing; tsRAWTS;
 KW tissue specific RAWTS; RAWIT;
 KW RNA amplification with in vitro translation; zooRAWTS; ASAWTS;
 KW adjacent sequence amplification with transcript sequencing; PASA;
 KW PCR amplification of specific alleles; PLATS;
 KW promoter ligation with transcript sequencing.
 XX
 XX Homo sapiens.
 OS
 XX US2003143553-A1.
 PN
 XX 31-JUL-2003.
 PD
 XX 07-MAR-2002; 2002US-00094507.
 PF
 XX 28-JAN-1988; 88US-00149312.
 PR 24-JUL-1989; 89US-00385013.
 PR 12-NOV-1993; 93US-00151461.
 PR 27-DEC-1994; 94US-00399855.
 PR 22-FEB-2000; 2000US-00510177.
 PR
 XX

(SOMM/) SOMMER S S.
 Sommer SS;
 WPI; 2003-730802/69.
 Amplifying a sequence of interest present within a nucleic acid molecule
 for monitoring the progression of cancer by obtaining a sample of the
 nucleic acid molecule and contacting the sample with an RNA polymerase.
 Disclosure; Fig 1B; 70pp; English.
 The invention relates to amplifying a sequence of interest present within
 a nucleic acid molecule comprising: obtaining a sample of the nucleic acid
 acid molecule that contains the sequence of interest; if the nucleic acid
 is a single-stranded RNA molecule, treating the sample so as to prepare a
 sample containing DNA molecule that contains a sequence complementary to
 the sequence of interest; treating the sample to obtain a further sample;
 contacting the further sample under hybridisation conditions with one
 oligonucleotide primer that includes at least a promoter and a nucleic
 acid present within the nucleic acid molecule, where the primer sequence
 is located adjacent to, and 5' of, the sequence of interest, so that the
 oligonucleotide primer hybridises with the single-stranded DNA molecule;
 treating the resulting sample containing the single stranded DNA molecule
 to which the oligonucleotide primer is hybridised from step (4) with a
 polymerase under polymerizing conditions so that a DNA extension product
 of the oligonucleotide primer is synthesised and contains the sequence of
 interest; treating the sample from step (5) so as to separate the DNA
 extension product from the single-stranded DNA molecule on which it was
 synthesised; contacting the resulting sample from step (6) containing the
 sequence complementary to the sequence of interest under hybridisation
 conditions, with one oligonucleotide primer; treating the sample
 containing the single-stranded DNA molecule to which the oligonucleotide
 primer is hybridised from step (7) with a polymerase so as to synthesise
 a further DNA extension product; repeating steps (7)-(9), as desired;
 contacting the sample from step (10) with an RNA polymerase that
 initiates polymerization from the promoter present, under polymerising
 conditions, so as to obtain multiple RNA transcripts of each DNA
 extension product that contains the sequence complementary to the
 sequence of interest. The promoter is a phage promoter, which is T7, T3
 or SP6 promoter. The method (and its modifications detailed in the
 specification) are known as GAWTS (genomic amplification with transcript
 sequencing), RAWTS (RNA amplification with transcript sequencing), PASA
 tsRAWTS (tissue specific RAWTS), RAWIT (RNA amplification with in vitro
 translation), zooRAWTS (sequencing homologous genes across species)
 ASAWTS (adjacent sequence amplification with transcript sequencing), PASA
 (PCR amplification of specific alleles) and PLATS (promoter ligation with
 transcript sequencing). The method is useful for amplifying a sequence of
 interest present within a nucleic acid molecule for monitoring the
 progression of cancer or the efficiency of treatment of cancer or for
 diagnosing and subtyping infectious agents. The present sequence is a
 human retina specific blue pigment gene exon 4/5 junction sequence
 analysed by the method of the invention.

Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 5 CTCGAG 10
 Db |||||
 10 CTGGAG 5
 RESULT 177
 AAV50258/c
 ID AAV50258 standard; DNA; 10 BP.
 XX
 AC AAV50258;
 XX
 XX 21-OCT-1998 (first entry)
 DT
 XX

DE Yeast tag for additional NORF chromosome 4 tag position 381712.
 XX
 XX Yeast; Saccharomyces cerevisiae; transcriptome; cell cycle; regulation;
 KW eukaryotic cell; antifungal; SAGE tag; gene expression;
 KW serial analysis of gene expression; probe; ss.
 XX
 OS Saccharomyces cerevisiae.
 OS Synthetic.
 XX
 PN W09832847-A2.
 XX
 XX 30-JUL-1998.
 XX
 XX 22-JAN-1998; 98WO-US001216.
 XX
 XX 23-JAN-1997; 97US-0035917P.
 XX
 XX (UYJO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
 PA
 PA Velculescu VE, Vogelstein B, Kinzler KW;
 PI WPI; 1998-427943/36.
 XX
 XX Yeast transcriptome - useful for modulating eukaryotic cell, for
 PT screening antifungal agents, and for identifying genes in cell cycle
 PT progression.
 XX
 XX Claim 1; Page 26; 44pp; English.
 PS
 XX Yeast transcriptome is encoded by a DNA molecule comprising a yeast gene
 CC involved in cell cycle progression selected from the group of
 CC nonannotated ORF (NORF) genes. SAGE (serial analysis gene expression)
 CC tags for highly expressed genes and NORF genes are given in AAV50051 to
 CC AAV50345. The present invention describes: (1) a method of using yeast
 CC genes to modulate the cell cycle which comprises administering to a cell
 CC an isolated DNA molecule comprising a yeast gene which is involved in
 CC cell cycle progression selected from differentially expressed genes (SAGE
 CC tags given in AAV50051 to AAV50345); (2) a method for screening candidate
 CC antifungal drugs which comprises contacting a test substance with a yeast
 CC cell and monitoring expression of a yeast gene which is involved in cell
 CC cycle progression; (3) a method of identifying human genes which are
 CC involved in cell cycle progression which comprises hybridizing a probe
 CC comprising at least 10 contiguous nucleotides of a yeast gene which is
 CC differentially expressed between at least 2 phases selected from the log
 CC phase, the S phase and the G2/M phase; and (4) a probe for ascertaining
 CC the phase in the cell cycle, where the probe comprises at least 14
 CC contiguous nucleotides of a NORF gene (SAGE tags given in AAV50051 to
 CC AAV50345), or as an array of probes on a solid support
 XX
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;
 Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 5 CTCGAG 10
 Db 7 CTGGAG 2
 |||||
 RESULT 178
 AAZ83592
 ID AAZ83592 standard; DNA; 10 BP.
 XX
 AC AAZ83592;
 XX
 XX 07-APR-2000 (first entry)
 DT
 XX Metastatic breast tumour cell upregulated transcript tag #2826.
 DE
 XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.

XX Homo sapiens.
 OS
 XX W09965928-A2.
 PN
 XX 23-DEC-1999.
 PD
 XX
 XX 18-JUN-1999; 99WO-US013647.
 PF
 XX
 XX 19-JUN-1998; 98US-0089853P.
 PR
 PR 19-JUN-1998; 98US-0089997P.
 PR
 PR 19-JUN-1998; 98US-0090039P.
 PR
 PR 19-JUN-1998; 98US-0090040P.
 PR
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 XX
 XX Roberts BL, Shankara S;
 PI WPI; 2000-106079/09.
 DR
 XX Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 PT treatment of cancer.
 XX
 XX Claim 1; Page 134; 219pp; English.
 PS
 XX AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy
 XX
 SQ Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;
 Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 5 CTCGAG 10
 Db 4 CTGGAG 9
 |||||
 RESULT 179
 AAZ85035/C
 ID AAZ85035 standard; DNA; 10 BP.
 XX
 AC AAZ85035;
 XX
 XX 07-APR-2000 (first entry)
 DT
 XX Metastatic breast tumour cell downregulated transcript tag #4269.
 DE
 XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW

KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 KW antimetastatic; vaccine; diagnosis; ss.

OS Homo sapiens.

PN WO9965928-A2.

XX 23-DEC-1999.

XX 18-JUN-1999; 99WO-US013647.

XX 19-JUN-1998; 98US-0089853P.

XX 19-JUN-1998; 98US-0089997P.

XX 19-JUN-1998; 98US-0090039P.

XX 19-JUN-1998; 98US-0090040P.

XX 19-JUN-1998; 98US-0090041P.

PA (GENZ) GENZYME CORP.

PA (ROBE/) ROBERTS B L.

PA (SHAN/) SHANKARA S.

XX Roberts BL, Shankara S;

XX WPI; 2000-106079/09.

XX Claim 1; Page 173; 219pp; English.

XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.

CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy

XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;

Best Local Similarity 66.7%; Pred. NO. 1.7e+02;

Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10

Db 9 CTGGAG 4

RESULT 180

AACT4005/c

ID AAC74005 standard; cDNA; 10 BP.

XX AAC74005;

XX AC

DT 02-FEB-2001 (first entry)

DE Human dendritic cell cDNA base sequence oligonucleotide #92.

XX

KW Human; dendritic cell; monocyte; immune system; diagnosis; cancer;
 KW autoimmune disease; tumour; ss.

OS Homo sapiens.

PN WO200060074-A1.

XX 12-OCT-2000.

XX 30-MAR-2000; 2000WO-JP002019.

XX 01-APR-1999; 99JP-00095481.

XX (NTSC-) JAPAN SCI & TECHNOLOGY CORP.

XX Hashimoto S, Matsushima K, Suzuki T;

XX WPI; 2000-619172/59.

XX Groups of genes expressed in human dendritic cells at a greater or lesser
 PT extent than in monocytes for investigation and diagnosis of autoimmune
 PT disease and tumors.

XX Claim 1; Page 10; 95pp; Japanese.

XX The present invention describes a group of genes consisting of 100 genes
 CC which are highly expressed in human dendritic cells; a group of genes
 CC which are expressed at a higher frequency in human dendritic cells than
 CC in human monocytes; and a group of genes which are expressed at lower
 CC frequency in human dendritic cells than in human monocytes. Each group of
 CC genes are characterised in that cDNAs of these genes respectively have
 CC the base sequences of SEQ ID NO:1 to 100 (AAC73914 to AAC74013), SEQ ID
 CC NO:101 to 200 (AAC74014 to AAC74113) and SEQ ID NO:201 to 300 (AAC74114
 CC to AAC74213), each is continuous with the base sequences 5'-CATG-3',
 CC located most closely to the poly-A region. The sequences can be used for
 CC the investigation of the role and mechanism of the involvement of
 CC dendritic cells in the immune system and for the study and diagnosis of
 CC diseases in which dendritic cells play a significant role, e.g. cancers
 CC and autoimmune diseases

XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;

Best Local Similarity 66.7%; Pred. NO. 1.7e+02;

Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10

Db 9 CTGGAG 4

RESULT 181

AAA56168/c

ID AAA56168 standard; DNA; 10 BP.

XX AAA56168;

XX 07-SEP-2000 (first entry)

XX Human monocyte gene Tag oligonucleotide sequence SEQ ID NO:62.

XX Human; monocyte; macrophage; GM-macrophage; M-macrophage; tag;
 KW granulocyte-macrophage colony-stimulating factor; characterisation;
 KW GM-CSF; identification; diagnosis; gene specificity; oncogenesis;
 KW disease onset mechanism; genetic disease; drug development; ss.

OS Homo sapiens.

PN WO200024892-A1.

XX 04-MAY-2000.

XX

PF 28-OCT-1999; 99WO-JP005982.
 XX
 PR 28-OCT-1998; 98JP-00307532.
 XX
 PA (NISC-) JAPAN SCI & TECHNOLOGY CORP.
 XX
 XX Hashimoto S, Matsushima K, Suzuki T;
 PI
 XX WPI; 2000-350734/30.
 DR
 XX
 XX Genes most frequently expressed in human monocytes and GM-macrophages and
 PT M-macrophages studied and with cDNAs characterized, for study of gene
 PT specificity, disease onset mechanism, drug development and diagnosis.
 XX
 XX Claim 1; Page 51; 138pp; Japanese.
 PS
 XX
 CC The present invention describes 100 human genes, which are expressed most
 CC frequently in human monocytes. The cDNA of each gene has a sequence fully
 CC defined in the specification, and lacking the CATG sequence located
 CC adjacent to polyA region. Also described are: (1) an antibody
 CC specifically for the protein encoded by any of the genes; (2)
 CC oligonucleotides obtained from the cDNA sequences; (3) 380 human genes
 CC from human monocytes by granulocyte-macrophage colony-stimulating factor,
 CC the cDNA of each gene has a fully defined sequence, given in the
 CC specification, lacking the base sequence CATG located most closely to the
 CC poly A region; (4) an antibody specifically for the protein encoded by
 CC any of the genes of (3); and (5) oligonucleotides obtained from the cDNA
 CC sequences of (3). The genes and cDNAs, are used for the study of gene
 CC specificity and disease onset mechanism e.g. oncogenesis, genetic
 CC diseases, drug development and diagnosis. AA56107 to AA56586 represent
 CC specifically claimed oligonucleotide tag sequences for human genes
 CC expressed in monocytes and macrophages
 XX
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
 Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 5 CTCGAG 10
 Db || ||
 9 CTGGAG 4
 RESULT 182
 AAH63530/c
 ID AAH63530 standard; cDNA; 10 BP.
 XX
 AC AAH63530;
 XX
 DT 20-SEP-2001 (first entry)
 DE Human ubiquitously expressed transcriptome sequence SEQ ID NO: 370.
 XX
 DE Human; transcriptome; gene expression pattern; cancer; drug screening;
 KW cancer diagnosis; cell specific gene expression; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200138577-A2.
 PN
 XX 31-MAY-2001.
 PD
 XX 21-NOV-2000; 2000WO-US031922.
 XX
 XX 24-NOV-1999; 99US-00448480.
 XX
 XX (UYJO) UNIV JOHNS HOPKINS.
 PA
 XX Velculescu VE, Vogelstein B, Kinzler KW;
 PI
 XX WPI; 2001-367706/38.
 DR
 XX
 XX New isolated polynucleotides, useful for identifying specific cell type,
 PT such as cancer cell, comprises transcriptomes expressed in particular
 PT cell types.
 XX
 PS Claim 13; Page 47; 94pp; English.
 XX
 CC The present invention describes a method of identifying the type of cell
 CC in a sample, involving determining which of the sequences AAH63161-
 CC AAH64724 is expressed by the cell. The transcriptomes described in the
 CC invention are cell-type specific, cancer specific or ubiquitously
 CC expressed in humans. They can also be used to screen for drugs, reduce
 CC cancer specific gene expression, standardise expression and restore the
 CC function of a diseased cell or tissue. The present sequence is one of the
 CC transcriptomes described in the exemplification of the invention
 XX
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
 Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 5 CTCGAG 10
 Db || ||
 9 CTGGAG 4
 RESULT 183
 AAF38187/c
 ID AAF38187 standard; DNA; 10 BP.
 XX
 AC AAF38187;
 XX
 DT 23-MAR-2001 (first entry)
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4926.
 XX
 DE Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX
 OS Saccharomyces cerevisiae.
 XX
 XX WO200077214-A2.
 EN
 XX 21-DEC-2000.
 PD
 XX 14-JUN-2000; 2000WO-US016223.
 PF
 XX 16-JUN-1999; 99US-00335032.
 PR
 XX (UYJO) UNIV JOHNS HOPKINS.
 PA
 XX Velculescu V, Vogelstein B, Kinzler K;
 PI
 XX WPI; 2001-061874/07.
 DR
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 XX Example; Page 175; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast

CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention

XX
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
 || ||
 Db 7 CTGGAG 2

RESULT 184
 AAF39032/c
 ID AAF39032 standard; DNA; 10 BP.

XX
 AC AAF39032;

XX
 DT 23-MAR-2001 (first entry)

XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5771.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.

XX
 OS Saccharomyces cerevisiae.

XX
 PN WO200077214-A2.

XX
 PD 21-DEC-2000.

XX
 PF 14-JUN-2000; 2000WO-US016223.

XX
 PR 16-JUN-1999; 99US-00335032.

XX
 PA (UYJO) UNIV JOHNS HOPKINS.

XX
 PI Velculescu V, Vogelstein B, Kinzler K;

XX
 DR WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.

XX
 PS Example; Page 206; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at

CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention

XX
 SQ Sequence 10 BP; 3 A; 3 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
 || ||
 Db 9 CTGGAG 4

RESULT 185

AAF33475/c

ID AAF33475 standard; DNA; 10 BP.

XX
 AC AAF33475;

XX
 DT 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:214.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.

XX
 OS Saccharomyces cerevisiae.

XX
 PN WO200077214-A2.

XX
 PD 21-DEC-2000.

XX
 PF 14-JUN-2000; 2000WO-US016223.

XX
 PR 16-JUN-1999; 99US-00335032.

XX
 PA (UYJO) UNIV JOHNS HOPKINS.

XX
 PI Velculescu V, Vogelstein B, Kinzler K;

XX
 DR WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.

XX
 PS Claim 1; Page 26; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at

comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention

XX
SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTCGAG 10
|||
DB 7 CTGAG 2

RESULT 186
ABL60204/c
ID ABL60204 standard; DNA; 10 BP.
XX
AC ABL60204;
XX
DT 22-JUL-2002 (first entry)
XX
DE Human MUC1 PCR primer SEQ ID NO 48.
XX
KW Human; mucin 1; MUC1; transmembrane protein; SNP; cancer; cytostatic;
KW single nucleotide polymorphism; haplotyping; genotyping; drug;
KW antiinflammatory; PCR; primer; ss.
XX
OS Homo sapiens.
XX
PN WO200226765-A2.
XX
PD 04-APR-2002.
XX
PF 25-SEP-2001; 2001WO-US030151.
XX
PR 28-SEP-2000; 2000US-0236113P.
XX
XX (GENA-) GENAISSANCE PHARM INC.
PA
PI Chew A, Koshiy B;
XX
XX WPI; 2002-405042/43.
XX
PT New genetic variants of mucin 1, Transmembrane gene, useful in studying
PT expression and function of protein encoded by the gene and for screening
PT drugs to treat diseases e.g. cancer.
XX
PS Claim 16; Page 14; 75pp; English.
XX
XX The invention relates to a polynucleotide (ABL60158, ABL60159) encoding

CC mucin 1/MUC1 (AB77476), Transmembrane isogene. The invention describes
CC novel genetic variants of the MUC1 gene. The invention is useful for
CC haplotyping/genotyping the MUC1 gene in an individual and identifying an
CC association between a trait and at least one of the haplotypes or
CC haplotype pairs of MUC1 gene. MUC1 is useful for studying the expression
CC and function of MUC1 and expressing MUC1 protein for use in screening for
CC candidate drugs to treat diseases related to MUC1 activity and in
CC studying the effect of the variation on the biological activity of MUC1
CC as well as on the binding affinity of candidate drugs targeting MUC1 for
CC the treatment of e.g. cancer. MUC1 is further used by the pharmaceutical
CC research scientist to validate MUC1 as a candidate target for and in
CC design of clinical trials of candidate drugs for, treating a specific
CC condition drugs or disease predicted to be associated with MUC1 activity.
CC MUC1 antibodies are useful in a variety of diagnostic and prognostic
CC formats and therapeutic methods. The present sequence is that of a PCR
CC primer for detecting MUC1 polymorphisms, useful to the invention
XX
SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 1.7e+02;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 9 AGTCTC 14
|||
DB 7 AGACAC 2

RESULT 187
ABV78336/c
ID ABV78336 standard; cDNA; 10 BP.

XX ABV78336;

DT 29-NOV-2002 (first entry)

DE Human ribosomal protein L23 SAGE tag, SEQ ID NO:47.

XX
KW SAGE tag; serial analysis of gene expression; human; Th1 cell;
KW activated T cell; T lymphocyte; immune response; expression pattern;
KW immune disorder; ss.

XX Homo sapiens.

XX JP2002186482-A.

XX 02-JUL-2002.

XX 19-DEC-2000; 2000JP-00385816.

XX 19-DEC-2000; 2000JP-00385816.

XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.

XX WPI; 2002-594261/64.

XX Human activated Th1 and Th2 cell expression gene group, useful for the
PT diagnosis and treatment of Th1 and Th2-related diseases.

XX Claim 1; Page 8; 60pp; Japanese.

XX The invention relates to SAGE (serial analysis of gene expression) tags
CC representing groups of genes which are expressed in activated human Th1
CC and/or Th2 cells. The SAGE tags of this invention consist of a sequence
CC of 10 nucleotides located downstream of the 5'-CARG-3' sequence motif
CC lying nearest to the polyA region of cDNAs derived from a variety of
CC genes. These tags serve to uniquely identify each transcript and can thus
CC be used to analyse the pattern of gene expression in particular cell
CC types. The invention also relates to proteins encoded by the genes
CC expressed in Th1 and/or Th2 cells, antibodies against these proteins, and
CC inhibitors of the expression of groups of genes that are expressed in Th1
CC either or both the two cell types. Groups of genes expressed in Th1
CC and/or Th2 cell types may be used for the diagnosis and treatment of Th1

CC and Th2-related disorders. Sequences ABV78290-ABV78339 are SAGE tags
 CC representing 50 genes which are most highly expressed in Th1 cells
 XX
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
 Db 9 CTGGAG 4

RESULT 188
 ID ABK23747 standard; DNA; 10 BP.
 XX
 AC ABK23747;
 XX
 DT 09-APR-2002 (first entry)
 XX
 DE Transcript tag DNA sequence #336 induced or suppressed by N-myc.
 XX
 KW Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;
 KW spread; myc target; myc tag; SAGE; serial analysis of gene expression;
 KW myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.
 XX
 OS Homo sapiens.
 XX
 PN WO200185941-A2.
 XX
 PD 15-NOV-2001.
 XX
 PF 11-MAY-2001; 2001WO-NL000361.
 XX
 PR 11-MAY-2000; 2000EP-00201698.
 XX
 PP 29-JUN-2000; 2000EP-00202284.
 XX
 PA (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BIJ VAN.
 XX
 PI Versteeg R, Caron HN;
 XX
 PS WPI; 2002-066603/09.
 XX
 DR A new nucleic acid library of myc-dependent downstream genes capable of
 XX supporting a neoplastic characteristic of cancer is useful to find new
 XX therapies and diagnoses for cancer.
 XX
 PS Disclosure; Page 58; 69pp; English.
 XX
 CC The present invention relates to a nucleic acid library comprising myc-
 CC dependent downstream genes or their functional fragments essentially
 CC capable of supporting a neoplastic character of cancer such as growth,
 CC invasion or spread. These myc target or tag sequences are identified by
 CC SAGE (serial analysis of gene expression). The library is useful to find
 CC new diagnoses and treatments for cancer. The invention is also useful to
 CC enhance production of recombinant proteins in a production system with
 CC high expression of endogenous or transfected myc oncogenes. ABK23412-
 CC ABK23428 represent transcript tag DNA sequences that are activated or
 CC repressed by N-myc in human neuroblastoma
 XX
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
 Db 9 CTGGAG 4

RESULT 189
 ID ACA94446 standard; DNA; 10 BP.
 XX
 AC ACA94446;
 XX
 DT 18-JUL-2003 (first entry)
 XX
 DE DNA tag from human transcript elevated in adenomas/cancers #27.
 XX
 KW Colorectal cancer; colorectal adenoma; ss; human; renal dipeptidase;
 KW macrophage inhibitory cytokine; MIC; RDP; faeces; blood;
 KW kidney proximal tubule.
 XX
 OS Homo sapiens.
 XX
 PN WO2003022863-A1.
 XX
 PD 20-MAR-2003.
 XX
 PF 09-SEP-2002; 2002WO-US028518.
 XX
 PR 07-SEP-2001; 2001US-0317494P.
 XX
 PP 30-MAY-2002; 2002US-0383805P.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
 XX
 PI Buckhaults P, Kinzler KW, Vogelstein B;
 XX
 PS WPI; 2003-313220/30.
 XX
 DR Detecting colorectal cancer in a subject, involves detecting macrophage
 XX inhibitory cytokine or renal dipeptidase or their mRNA in feces or blood
 XX of the subject.
 XX
 PS Disclosure; Page 25; 59pp; English.
 XX
 CC The invention relates to detecting CC (colorectal cancer e.g. colorectal
 CC adenoma), comprising: (a) detecting macrophage inhibitory cytokine (MIC)
 CC or renal dipeptidase (RDP) in faeces or blood of a subject and comparing
 CC amount of MIC or RDP detected to that in normal subjects, where an
 CC elevated amount of MIC or RDP in the subject is an indicator of CC in
 CC subject; (b) isolating mRNA sample from faeces of a subject, detecting
 CC MIC or RDP mRNA in the mRNA sample, and comparing amount of MIC or RDP
 CC mRNA detected to that in normal subjects, where an elevated amount of MIC
 CC or RDP mRNA in the subject is an indicator of CC in subject; (c)
 CC isolating epithelial cells from blood of a subject, isolating an mRNA
 CC sample from faeces of a subject or epithelial cells, detecting MIC or RDP
 CC mRNA in the mRNA sample, and comparing the amount of MIC or RDP mRNA in
 CC the mRNA sample to amounts of MIC or RDP mRNA in normal subjects, where
 CC an elevated amount of MIC or RDP mRNA in the mRNA sample is an indicative
 CC of CC in the subject; (d) contacting blood or faeces of a subject, with
 CC an RDP substrate, detecting activity of RDP in the blood or faeces by
 CC detection of increased reaction product or decreased RDP substrate, and
 CC comparing the amount of activity of RDP in blood or faeces of the subject
 CC to that in normal subjects, where an elevated amount of activity of RDP
 CC in the blood or faeces of the subject is an indicator of CC in the
 CC subject; (e) administering to a subject an antibody which specifically
 CC binds to RDP or an inhibitor of RDP, where the antibody or inhibitor is
 CC labeled with a moiety which is detectable from outside of the subject and
 CC detecting the moiety in the subject from outside of the subject, where an
 CC area of localisation of the moiety within the subject but outside the
 CC proximal tubules of the kidney identifies CC; or (f) administering to a
 CC subject a substrate for RDP, the substrate being labeled with a
 CC detectable moiety, isolating faeces or blood from the subject, and
 CC detecting in the faeces or blood RDP reaction product or decreased
 CC with the detectable moiety, where increased product or decreased
 CC substrate in the faeces or blood indicates CC in the subject. The methods
 CC are useful for detecting colorectal cancer in a subject. The present
 CC sequence is a DNA tag derived from a human transcript whose expression is
 CC elevated in colorectal cancer or colorectal adenoma
 XX
 SQ Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTCGAG 10
 ||||
 Db 9 CTGGAG 4

RESULT 190
 ADL96158
 ID ADL96158 standard; DNA; 10 BP.
 XX AC ADL96158;
 XX DT 20-MAY-2004 (first entry)
 XX DE CD15+ myeloid cell associated probe seqid 56.
 XX KW cytotatic; gene therapy; microarray; gene expression characteristic;
 KW KW haematopoietic cell; haematopoiesis; myeloid leukaemia; probe;
 KW KW CD15+ myeloid cell; ss.
 XX OS Homo sapiens.
 XX PN US2003165949-A1.
 XX PD 04-SEP-2003.
 XX PF 23-DEC-2002; 2002US-00329465.
 XX PR 27-DEC-2001; 2001US-0343826P.
 XX PA (WANG/) WANG S M.
 PA (LEES/) LEE S.
 PA (CHEN/) CHEN J.
 PA (ZHOU/) ZHOU G.
 PA (ROWL/) ROWLEY J D.
 XX PI Wang SM, Lee S, Chen J, Zhou G, Rowley JD;
 XX WIPI; 2003-863699/80.

XX New microarray for measuring gene expression characteristics of
 PT hematopoietic cells, useful for preparing a composition for diagnosing or
 PT treating myeloid leukemia.

XX Claim 1; SEQ ID NO 56; 32pp; English.

XX The invention describes a microarray for measuring gene expression
 CC characteristics of haematopoietic cells comprising at least 5
 CC polynucleotides having distinct sequences. Also described are: a method
 CC of diagnosing or treating an abnormality associated with haematopoiesis;
 CC and diagnosing myeloid leukaemia in a patient. The microarray is useful
 CC for preparing a composition for diagnosing or treating myeloid leukaemia.
 CC This sequence represents a polynucleotide probe comprising a portion of
 CC an expressed gene isolated from a population of CD15+ myeloid cells and
 CC suitable for use in the microarray of the invention.

XX Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTCGAG 10
 ||||
 Db 4 CTGGAG 9

RESULT 191
 ADI53195/c

ID ADI53195 standard; DNA; 10 BP.
 XX AC ADI53195;
 XX DT 22-APR-2004 (first entry)
 XX DE Human CD3E primer extension primer terminus #29.
 XX KW Human; CD3 antigen epsilon subunit; CD3E; primer; ss; haplotype;
 KW KW genotype; primer extension.
 XX OS Homo sapiens.
 XX PN US2004018493-A1.
 XX PD 29-JAN-2004.
 XX PF 12-JUL-2002; 2002US-00193507.
 XX PR 12-JUL-2002; 2002US-00193507.
 XX PA (ANAS/) ANASTASIO A E.
 PA (KAZE/) KAZEMI A.
 PA (LACH/) LACHOWICZ M.
 PA (PABO/) PABON V.
 PA (SHAH/) SHAH N.
 XX PI Anastasio AE, Kazemi A, Lachowicz M, Pabon V, Shah N;
 XX WIPI; 2004-122016/12.

XX Haplotyping the CD3 antigen, epsilon subunit (CD3E) gene of an individual
 PT by identifying the phased sequence of nucleotides at polymorphic sites
 PT PS1-PS16 for at least one copy of the individual's CD3E gene.

XX Claim 22; SEQ ID NO 80; 59pp; English.

XX The invention relates to haplotyping the CD3 antigen, epsilon subunit
 CC (CD3E) gene of an individual comprising identifying the phased sequence
 CC of nucleotides at polymorphic sites PS1-PS16 for at least one copy of the
 CC individual's CD3E gene and assigning to the individual a CD3E haplotype
 CC or haplotype pair, given in the specification, that is consistent with
 CC the phased sequence. Also included are genotyping the CD3E gene of an
 CC individual, assigning a haplotype pair for the CD3E gene to an
 CC individual, identifying an association between a trait and at least one
 CC haplotype or haplotype pair of the CD3E gene, reducing the potential for
 CC bias in a clinical trial of a candidate drug for treating a disease or
 CC condition predicted to be associated with CD3E activity, an isolated CD3E
 CC polynucleotide, a recombinant nonhuman organism transformed or
 CC transected with the isolated polynucleotide and expressing a CD3E
 CC protein, an isolated fragment of a CD3E isogene (comprising at least 50
 CC nucleotides in one of the regions of the CD3E gene (ADI53116) and one or
 CC more polymorphisms (PI-P16), where the selected polymorphism has the
 CC position given in the specification), screening for compounds targeting
 CC the CD3E protein to treat a condition or disease predicted to be
 CC associated with CD3E activity, validating the CD3E protein as a candidate
 CC target for treating a medical condition predicted to be associated with
 CC CD3E activity, an isolated oligonucleotide designed to detect a
 CC polymorphism in the CD3E gene at polymorphic sites PS1-PS16, a kit for
 CC haplotyping or genotyping the CD3E gene of an individual and a genome
 CC anthology for the CD3 antigen, epsilon subunit (CD3E) gene which
 CC comprises two or more CD3E isogenes. The method is useful for haplotyping
 CC the CD3 antigen, epsilon subunit (CD3E) gene of an individual for
 CC screening for compounds targeting the CD3E protein to treat a condition
 CC or disease predicted to be associated with CD3E activity. The present
 CC sequence is a Human CD3E primer extension primer terminus.

XX Sequence 10 BP; 1 A; 5 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

Qy      5 CTCGAG 10
Db      9 CTGGAG 4

RESULT 192
ID      ADS77586 standard; DNA; 10 BP.
XX
XX
AC      ADS77586;
XX
XX      30-DEC-2004 (first entry)
XX
XX      Breast cancer detection oligonucleotide #1368.
DE
XX      ss; primer; cytostatic; RNA interference; RNAi; gene silencing;
KW      antisense oligonucleotide inhibitor; cathepsin K inhibitor;
KW      cathepsin L inhibitor; cathepsin F inhibitor;
KW      metalloprotease 2 inhibitor; thrombospondin-2 antagonist;
KW      collagen antagonist; diagnosis; breast tissue; cancer.
XX
XX      Homo sapiens.
OS
XX
XX      WO2004085621-A2.
PN
XX
XX      07-OCT-2004.
PD
XX
XX      22-MAR-2004; 2004WO-US008866.
PF
XX
XX      20-MAR-2003; 2003US-0456735P.
PR
XX
XX      (DAND ) DANA FARBER CANCER INST INC.
PA
XX
XX      Polyak K, Porter D, Allinen M;
PI
XX
XX      WPI; 2004-728732/71.
DR
XX
XX      Diagnosing breast cancer comprises determining expression levels of a
PT      gene selected from those differentially expressed in normal or cancerous
PT      cells of a breast tissue sample including interleukin 1, thrombospondin 1
PT      and cystatin C.
XX
XX      Example 2; SEQ ID NO 468; 149pp; English.
XX
XX      The invention relates to a method of diagnosis (M1) comprising: (a)
CC      providing a test sample of breast tissue; (b) determining the level of
CC      expression in the test sample of a gene (e.g. interleukin-8, superoxide
CC      dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
CC      specification, and (c) if the gene is expressed in the test sample at a
CC      lower level than in a control normal breast tissue sample, diagnosing the
CC      test sample as containing cancer cells. The method is used for diagnosing
CC      breast cancer. This sequence corresponds to an oligonucleotide primer
CC      used in the method of the invention.
XX
XX      Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
PS
XX
XX      Query Match      14.0%; Score 2.8; DB 1; Length 10;
XX      Best Local Similarity 66.7%; Pred. No. 1.7e+02;
XX      Matches      4; Conservative      0; Mismatches      2; Indels      0; Gaps      0;

Qy      5 CTCGAG 10
Db      9 CTGGAG 4

RESULT 193
ID      ADS76686 standard; DNA; 10 BP.
XX
XX
AC      ADS76686;
XX
XX      30-DEC-2004 (first entry)
XX
XX      Breast cancer detection oligonucleotide #1536.
DE
XX      ss; primer; cytostatic; RNA interference; RNAi; gene silencing;
KW      antisense oligonucleotide inhibitor; cathepsin K inhibitor;
KW      cathepsin L inhibitor; cathepsin F inhibitor;
KW      metalloprotease 2 inhibitor; thrombospondin-2 antagonist;
KW      collagen antagonist; diagnosis; breast tissue; cancer.
XX
XX      Homo sapiens.
OS
XX
XX      WO2004085621-A2.
PN
XX
XX      07-OCT-2004.
PD
XX
XX      22-MAR-2004; 2004WO-US008866.
PF
XX
XX      20-MAR-2003; 2003US-0456735P.
PR
XX
XX      (DAND ) DANA FARBER CANCER INST INC.
PA
XX
XX      Polyak K, Porter D, Allinen M;
PI
XX
XX      WPI; 2004-728732/71.
DR
XX
XX      Diagnosing breast cancer comprises determining expression levels of a
PT      gene selected from those differentially expressed in normal or cancerous
PT      cells of a breast tissue sample including interleukin 1, thrombospondin 1
PT      and cystatin C.
XX
XX      Example 6; SEQ ID NO 1368; 149pp; English.
XX
XX      The invention relates to a method of diagnosis (M1) comprising: (a)
CC      providing a test sample of breast tissue; (b) determining the level of
CC      expression in the test sample of a gene (e.g. interleukin-8, superoxide
CC      dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
CC      specification, and (c) if the gene is expressed in the test sample at a
CC      lower level than in a control normal breast tissue sample, diagnosing the
CC      test sample as containing cancer cells. The method is used for diagnosing
CC      breast cancer. This sequence corresponds to an oligonucleotide primer
CC      used in the method of the invention.
XX
XX      Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
PS
XX
XX      Query Match      14.0%; Score 2.8; DB 1; Length 10;
XX      Best Local Similarity 66.7%; Pred. No. 1.7e+02;
XX      Matches      4; Conservative      0; Mismatches      2; Indels      0; Gaps      0;

Qy      5 CTCGAG 10
Db      9 CTGGAG 4

RESULT 193
ID      ADS76686 standard; DNA; 10 BP.
XX
XX
AC      ADS76686;
XX
XX      30-DEC-2004 (first entry)
XX
XX      Breast cancer detection oligonucleotide #1536.
DE
XX      ss; primer; cytostatic; RNA interference; RNAi; gene silencing;
KW      antisense oligonucleotide inhibitor; cathepsin K inhibitor;
KW      cathepsin L inhibitor; cathepsin F inhibitor;
KW      metalloprotease 2 inhibitor; thrombospondin-2 antagonist;
KW      collagen antagonist; diagnosis; breast tissue; cancer.
XX
XX      Homo sapiens.
OS
XX
XX      WO2004085621-A2.
PN
XX
XX      07-OCT-2004.
PD
XX
XX      22-MAR-2004; 2004WO-US008866.
PF
XX
XX      20-MAR-2003; 2003US-0456735P.
PR
XX
XX      (DAND ) DANA FARBER CANCER INST INC.
PA
XX
XX      Polyak K, Porter D, Allinen M;
PI
XX
XX      WPI; 2004-728732/71.
DR
XX
XX      Diagnosing breast cancer comprises determining expression levels of a
PT      gene selected from those differentially expressed in normal or cancerous
PT      cells of a breast tissue sample including interleukin 1, thrombospondin 1
PT      and cystatin C.
XX
XX      Example 6; SEQ ID NO 1368; 149pp; English.
XX
XX      The invention relates to a method of diagnosis (M1) comprising: (a)
CC      providing a test sample of breast tissue; (b) determining the level of
CC      expression in the test sample of a gene (e.g. interleukin-8, superoxide
CC      dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
CC      specification, and (c) if the gene is expressed in the test sample at a
CC      lower level than in a control normal breast tissue sample, diagnosing the
CC      test sample as containing cancer cells. The method is used for diagnosing
CC      breast cancer. This sequence corresponds to an oligonucleotide primer
CC      used in the method of the invention.
XX
XX      Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
PS
XX
XX      Query Match      14.0%; Score 2.8; DB 1; Length 10;
XX      Best Local Similarity 66.7%; Pred. No. 1.7e+02;
XX      Matches      4; Conservative      0; Mismatches      2; Indels      0; Gaps      0;

Qy      5 CTCGAG 10
Db      9 CTGGAG 4

RESULT 194
ID      ADS77754 standard; DNA; 10 BP.
XX
XX
XX      ADS77754;
XX
XX      30-DEC-2004 (first entry)
XX
XX      Breast cancer detection oligonucleotide #1536.
DE
XX      ss; primer; cytostatic; RNA interference; RNAi; gene silencing;
KW      antisense oligonucleotide inhibitor; cathepsin K inhibitor;
KW      cathepsin L inhibitor; cathepsin F inhibitor;
KW      metalloprotease 2 inhibitor; thrombospondin-2 antagonist;
KW      collagen antagonist; diagnosis; breast tissue; cancer.
XX
XX      Homo sapiens.
OS
XX
XX      WO2004085621-A2.
PN
XX
XX      07-OCT-2004.
PD

```

XX 22-MAR-2004; 2004WO-US008866.
 XX
 XX 20-MAR-2003; 2003US-0456735P.
 PR
 XX (DAND) DANA FARBER CANCER INST INC.
 XX
 XX Polyak K, Porter D, Allinen M;
 XX WPI; 2004-728732/71.
 DR
 XX Diagnosing breast cancer comprises determining expression levels of a
 PT gene selected from those differentially expressed in normal or cancerous
 PT cells of a breast tissue sample including interleukin 1, thrombospondin 1
 PT and cystatin C.
 XX
 XX Example 6; SEQ ID NO 1536; 149pp; English.
 PS
 XX The invention relates to a method of diagnosis (M1) comprising: (a)
 CC providing a test sample of breast tissue; (b) determining the level of
 CC expression in the test sample of a gene (e.g. interleukin-8, superoxide
 CC dismutase 2 and tubulin, alpha 3) selected from Table 1 given in the
 CC specification, and (c) if the gene is expressed in the test sample at a
 CC lower level than in a control normal breast tissue sample, diagnosing the
 CC test sample as containing cancer cells. The method is used for diagnosing
 CC breast cancer. This sequence corresponds to an oligonucleotide primer
 CC used in the method of the invention.
 XX
 XX Sequence 10 BP; 2 A; 3 C; 1 G; 4 T; 0 U; 0 Other;
 SQ
 Query Match 14.0%; Score 2.8; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 1.7e+02;
 Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 5 CTCGAG 10
 Db 9 CTGGAG 4
 RESULT 195
 AAA80951
 ID AAA80951 standard; DNA; 8 BP.
 XX
 XX AAA80951;
 AC
 XX 24-NOV-2000 (first entry)
 DT
 XX A. thaliana primer walking octamer SEQ ID NO: 264.
 DE
 XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.
 KW
 XX Arabidopsis thaliana.
 OS
 XX US6083695-A.
 PN
 XX 04-JUL-2000.
 PD
 XX 21-MAY-1997; 97US-00859954.
 PF
 XX 15-APR-1996; 96US-00632782.
 PR
 XX (UYHO-) UNIV HOUSTON.
 PA (HARD/) HARDIN S H.
 PA
 XX Hardin PE, Hardin SH, Homayouni R;
 PI
 XX WPI; 2000-474852/41.
 PN
 XX Sequencing an unknown DNA molecule for the polymerase chain reaction and
 XX other primer processes comprises primer walking of octamer
 XX oligonucleotides.
 XX
 XX Example 8; Col 157-158; 161pp; English.

XX This invention describes a novel method for sequencing an unknown DNA
 CC molecule which comprises selecting a library primer from an octamer
 CC oligonucleotide library consisting of 48 8-bp sequences and corresponding
 CC complementary sequences, where the library primer is complementary to a
 CC known sequence adjacent to the unknown sequence or is complementary to a
 CC sequence in a known extension product. The method is useful for DNA
 CC nucleotide sequencing, in PCR, and in other processes which make use of
 CC primers. The octamers are used to identify coding sequences. Primer
 CC walking using the octamer libraries is advantageous over other sequencing
 CC methods because it does not require multiple cloning steps nor subsequent
 CC template preparations, and it is a directed and methodical approach.
 CC AAA80688-A81253 represent the octamer primers used in the primer walking
 CC method of the invention
 XX
 XX Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;
 SQ
 Query Match 12.0%; Score 2.4; DB 1; Length 8;
 Best Local Similarity 75.0%; Pred. No. 2.8e+02;
 Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 9 AGTC 12
 Db 5 AGAC 8
 RESULT 196
 AAA80762
 ID AAA80762 standard; DNA; 8 BP.
 XX
 XX AAA80762;
 AC
 XX 24-NOV-2000 (first entry)
 DT
 XX A. thaliana primer walking octamer SEQ ID NO: 75.
 DE
 XX Primer walking; octamer; primer; DNA sequencing; PCR; ss.
 KW
 XX Arabidopsis thaliana.
 OS
 XX US6083695-A.
 PN
 XX 04-JUL-2000.
 PD
 XX 21-MAY-1997; 97US-00859954.
 PF
 XX 15-APR-1996; 96US-00632782.
 PR
 XX (UYHO-) UNIV HOUSTON.
 PA (HARD/) HARDIN S H.
 PA
 XX Hardin PE, Hardin SH, Homayouni R;
 PI
 XX WPI; 2000-474852/41.
 PN
 XX Sequencing an unknown DNA molecule for the polymerase chain reaction and
 XX other primer processes comprises primer walking of octamer
 XX oligonucleotides.
 XX
 XX Example 8; Col 63-64; 161pp; English.
 PS
 XX This invention describes a novel method for sequencing an unknown DNA
 CC molecule which comprises selecting a library primer from an octamer
 CC oligonucleotide library consisting of 48 8-bp sequences and corresponding
 CC complementary sequences, where the library primer is complementary to a
 CC known sequence adjacent to the unknown sequence or is complementary to a
 CC sequence in a known extension product. The method is useful for DNA
 CC nucleotide sequencing, in PCR, and in other processes which make use of
 CC primers. The octamers are used to identify coding sequences. Primer
 CC walking using the octamer libraries is advantageous over other sequencing
 CC methods because it does not require multiple cloning steps nor subsequent
 CC template preparations, and it is a directed and methodical approach.
 CC AAA80688-A81253 represent the octamer primers used in the primer walking
 CC method of the invention

CC method of the invention

XX SQ Sequence 8 BP; 4 A; 1 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 2.8e+02;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
| | |
Db 3 AGAC 6

RESULT 197
AAS04430
ID AAS04430 standard; DNA; 10 BP.
XX
AC AAS04430;
XX
DT 07-SEP-2001 (first entry)
XX
DE Human DAXX DNA primer-extension oligonucleotide #17.
XX
KW Death-associated protein 6; DAXX; polymorphism; haplotype pair; human;
KW immune disorder; autoimmune disease; population diversity; ss;
KW paternity testing; anthropological lineage; forensic application;
KW primer-extension oligonucleotide.
XX
OS Homo sapiens.
XX
PN WO200125245-A2.
XX
PD 12-APR-2001.
XX
XX 05-OCT-2000; 2000WO-US027487.
XX
PF 06-OCT-1999; 99US-0157909P.
XX
PR (GENA-) GENAISSANCE PHARM INC.
XX
PA Chew A, Choi JV, Denton RR, Nandabalan K, Stephens JC;
XX
PI WPI; 2001-308220/32.
XX
DR New human death-associated protein 6 (DAXX) gene variants comprising 19
XX PT polymorphic sites useful in studying the effect of variation on the
XX PT biological activity of DAXX and in developing drugs targeting the
XX PT protein.

PS Disclosure; Page 20; 97pp; English.

XX Sequences AAS04414-AAS04451 represent primer-extension oligonucleotides
XX specific for a DNA encoding human death-associated protein 6 (DAXX). This
XX DNA may comprise one or more polymorphisms at specific nucleotide
XX positions to form one of nineteen possible polymorphic variants.
XX Associations between a trait and a genotype or a haplotype of the DAXX
XX gene can be identified by comparing the frequency of the genotype or
XX haplotype in a population exhibiting the trait with that of a reference
XX population. A higher frequency in the trait population indicates an
XX association. Methods involving genotyping or haplotyping of the DAXX gene
XX of an individual can lead to prediction of haplotype pairs for the DAXX
XX gene of related individuals, and may be useful in studying the expression
XX and biological function of DAXX, as well as in developing drugs targeting
XX this protein. Polymorphic variants of DAXX are useful in studying the
XX effect of the variation on the biological activity of DAXX as well as on
XX the binding affinity of candidate drugs targeting DAXX for the treatment
XX of autoimmune diseases and other immune disorders. Polymorphism is also
XX useful for studying population diversity, anthropological lineage,
XX paternity testing, forensic applications, and for identifying
XX associations between the DAXX genetic variation and a trait such as level
XX of drug response or susceptibility to disease. DAXX proteins may be used
XX to measure binding affinities of one or more candidate drugs targeting
XX the DAXX protein

XX SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 12.0%; Score 2.4; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
| | |
Db 5 AGAC 8

RESULT 198
AAF42997/C
ID AAF42997 standard; DNA; 10 BP.
XX
AC AAF42997;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11136.
XX
KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW not previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
OS Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
PF 16-JUN-1999; 99US-00335032.
XX
PR (UYJO) UNIV JOHNS HOPKINS.
XX
PA Velculescu V, Vogelstein B, Kinzler K;
XX
PI WPI; 2001-061874/07.
XX
DR Yeast gene coding sequences comprising NORF genes with serial analysis of
XX PT gene expression (SAGE) tags, useful for studying, monitoring and
XX PT affecting phases of the cell cycle.
XX
PS Example; Page 347; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33368 to AAF4064

CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;
Query Match 12.0%; Score 2.4; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 7 CCAG 10
| | |
Db 8 CGAG 5
| | |
RESULT 199
ADP47134
ID ADP47134 standard; DNA; 10 BP.
XX
AC ADP47134;
XX
DT 09-SEP-2004 (first entry)
XX
DE Human phospholipase A2-specific mAb heavy chain DNA sequence #14.
XX
DE human; monoclonal antibody; phospholipase A2; PLA2;
KW inflammatory disorder; degenerative disorder;
KW joint inflammatory reaction; skin inflammatory reaction;
KW blood vessels inflammatory reaction; arthritis; psoriasis; asthma;
KW Alzheimer's disease; atherosclerosis; restenosis; heavy chain; ds.
XX
OS Homo sapiens.
XX
PN WO2004050850-A2.
XX
PD 17-JUN-2004.
XX
PF 02-DEC-2003; 2003WO-US038234.
XX
PR 02-DEC-2002; 2002US-0430724P.
XX
PA (ABGE-) ABGENIX INC.
PA (LEXI-) LEXICON GENETICS INC.
XX
PI Landes GM, Haak-Frendscho M, Chen L, Lee YR, Liang ML, Feng X;
PI Jia X, Nocerini MR;
XX
DR WPI; 2004-461119/43.
XX
PT New human monoclonal antibody that binds to phospholipase A2 (PLA2),
PT useful for treating inflammatory conditions, e.g. arthritis, psoriasis,
PT asthma, Alzheimer's disease, atherosclerosis, or restenosis.
XX
PS Example 5; SEQ ID NO 49; 128pp; English.
XX
CC The invention comprises a human monoclonal antibody that binds to
CC phospholipase A2 (PLA2). The monoclonal antibody of the invention is
CC useful in the preparation of a medicament for the treatment of
CC inflammatory and degenerative disorders stemming from inflammatory
CC reactions in the joints, skin, and blood vessels, arthritis, psoriasis,
CC asthma, Alzheimer's disease, atherosclerosis, and restenosis. The present
CC nucleic acid represents a human PLA2-specific monoclonal antibody heavy
CC chain DNA sequence.
XX
SQ Sequence 10 BP; 3 A; 1 C; 5 G; 1 T; 0 U; 0 Other;
Query Match 12.0%; Score 2.4; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 3 GTCT 6
| | |
Db 4 GACT 7

RESULT 200
AAF43826/C
ID AAF43826 standard; DNA; 10 BP.
XX
AC AAF43826;
XX
DT 23-MAR-2001 (first entry)
XX
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11965.
XX
DE Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; db.
XX
OS Saccharomyces cerevisiae.
XX
PN WO200077214-A2.
XX
PD 21-DEC-2000.
XX
PF 14-JUN-2000; 2000WO-US016223.
XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
PI Velculescu V, Vogelstein B, Kinzler K;
XX
DR WPI; 2001-061874/07.
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 377; 419pp; English.
XX
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 0 A; 3 C; 1 G; 6 T; 0 U; 0 Other;
Query Match 12.0%; Score 2.4; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
 Db 6 AGAC 3

Best Local Similarity 75.0%; Pred. No. 1.8e+02;
 Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

RESULT 201
 AAF41634/C
 ID AAF41634 standard; DNA; 10 BP.
 XX AC AAF41634;
 XX DT 23-MAR-2001 (first entry)
 XX DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8373.
 XX KW Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX OS Saccharomyces cerevisiae.
 XX PN WO200077214-A2.
 XX PD 21-DEC-2000.
 XX PF 14-JUN-2000; 2000WO-US016223.
 XX PR 16-JUN-1999; 99US-00335032.
 XX XA (UWJO) UNIV JOHNS HOPKINS.
 XX XE Velulescu V, Vogelstein B, Kinzler K;
 XX WP; 2001-061874/07.
 XX YE Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX Example; Page 299; 419pp; English.
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention

Query Match 12.0%; Score 2.4; DB 1; Length 10;
 Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;

Best Local Similarity 75.0%; Pred. No. 1.8e+02;
 Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
 Db 8 AGAC 5

Best Local Similarity 75.0%; Pred. No. 1.8e+02;
 Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

RESULT 202
 AAS95397
 ID AAS95397 standard; DNA; 10 BP.
 XX AC AAS95397;
 XX DT 14-FEB-2002 (first entry)
 XX DE Human ICAM2 gene allele-specific oligonucleotide PCR primer #2.
 XX KW Human; intercellular adhesion molecule 2; ICAM2; haplotyping; ss;
 KW haplotype pair; single nucleotide polymorphism; genotyping; PCR primer;
 KW gene therapy; drug screening; anti-HIV; antiinflammatory; probe;
 KW human immunodeficiency virus; sequencing primer.
 XX OS Homo sapiens.
 XX PN WO200185918-A1.
 XX PD 15-NOV-2001.
 XX PF 07-MAY-2001; 2001WO-US014714.
 XX PR 05-MAY-2000; 2000US-0201946P.
 XX XA (GENA-) GENAISSANCE PHARM INC.
 XX XE Chew A, Choi JY, Denton RR, Kliem SE, Lee HH, Nandabalan K;
 XX WP; 2002-055590/07.
 XX NO Novel polynucleotide containing polymorphisms in intercellular adhesion
 PT molecule 2 gene, useful in developing drugs for treating human
 PT immunodeficiency virus infection and inflammatory diseases.
 XX Claim 18; Page 13; 81pp; English.
 XX The invention relates to single nucleotide polymorphisms in the gene
 CC encoding human intercellular adhesion molecule 2 (ICAM2). A method for
 CC haplotyping the ICAM2 gene in an individual comprises identifying the
 CC nucleotide at one or more polymorphic sites and determining whether one
 CC of the copies of the gene is defined by one of the ICAM2 haplotypes given
 CC in the specification or whether both copies are defined by a haplotype
 CC pair. This method is useful in genotyping, whereby all possible haplotype
 CC pairs can be assigned to specific genotypes. An association between a
 CC trait and a haplotype or haplotype pair of the ICAM2 gene can be
 CC identified by comparing the frequency of the haplotype or haplotype pair
 CC in a population exhibiting the trait with the frequency of the haplotype
 CC or haplotype pair in a reference population, where a higher haplotype
 CC frequency in the trait population indicates the trait is associated with
 CC the haplotype or haplotype pair. ICAM2 and its corresponding DNA are used
 CC for studying the expression and function of ICAM2, for use in screening
 CC for candidate drugs to treat diseases related to ICAM2 activity, such as
 CC HIV infection and inflammatory diseases. The sequences are also useful
 CC for studying the effect of variation on the biological activity of ICAM2
 CC as well as on the binding affinity of candidate drugs targeting ICAM2.
 CC Sequences AAS95362-AAS95417 and AAS95419-AAS95442 represent allele-
 CC specific oligonucleotide probes, sequencing primers, PCR primers and cDNA
 CC encoding human ICAM2

Query Match 12.0%; Score 2.4; DB 1; Length 10;
 Sequence 10 BP; 4 A; 1 C; 4 G; 1 T; 0 U; 0 Other;

```

QY      9 AGTC 12
Db      |||
        5 AGAC 8

RESULT 203
AAS97350/c
ID      AAS97350 standard; DNA; 10 BP.
XX
AC      AAS97350;
XX
DT      12-MAR-2002 (first entry)
XX
DE      Human CRYBB1 gene ASO primer extension PCR primer 3' end #9.
XX
KW      Human; crystallin beta B1; CRYBB1; chromosome 22q12.1; ophthalmological;
KW      cataract; allele specific oligonucleotide; ASO; ss; haplotype;
KW      genotyping; transgenic animal; PCR primer; primer extension.
XX
OS      Homo sapiens.
XX
PN      WO200185998-A1.
XX
PD      15-NOV-2001.
XX
PF      07-MAY-2001; 2001WO-US014715.
XX
PR      05-MAY-2000; 2000US-0202253P.
XX
PA      (GENA-) GENAISSANCE PHARM INC.
XX
PI      Choi JY, Kazemi A, Kliem SE, Koshy B, Rounds E;
XX
WPI; 2002-062253/08.
XX
PT      Novel polymorphic variants of crystallin, beta B1 useful in studying
PT      expression and function of the protein, useful for screening candidate
PT      drugs to treat diseases e.g. cataract.
XX
PS      Claim 17; Page 13; 94pp; English.
XX
CC      The invention relates to an isolated polynucleotide comprising a sequence
CC      which is a polymorphic variant of a reference sequence for crystallin,
CC      beta B1 (CRYBB1, located on chromosome 22q12.1) gene or their fragment,
CC      where the polymorphic variant comprises a CRYBB1 isogene defined by a
CC      haplotype from haplotypes 1-16 as given in the specification. Also
CC      included are a transgenic non-human animal transformed or transfected
CC      with the polymorphic variant, a computer system for storing and analysing
CC      polymorphism data for CRYBB1 gene, a genome anthology for the CRYBB1 gene
CC      which comprises the defined CRYBB1 isogenes, methods of determining an
CC      individuals haplotype or genotype as well as methods of determining the
CC      association of a particular haplotype with a disease or trait and a
CC      composition comprising at least one genotyping oligonucleotide
CC      (especially allele-specific oligonucleotides (ASO)) for detecting a
CC      polymorphism in the CRYBB1. The isogenes or haplotypes are useful for
CC      improving the efficiency and reliability of several steps in the
CC      discovery and development of drugs for treating diseases associated with
CC      CRYBB1 activity, e.g. cataract. and can also be used by the
CC      pharmaceutical research scientist to validate CRYBB1 as a candidate
CC      target for, and in design of clinical trials of candidate drugs for,
CC      treating a specific condition drugs or disease predicted to be associated
CC      with CRYBB1 activity. The ASOs are useful as probes and primers, and for
CC      assaying a polymorphism in the target region. The present sequence is the
CC      allele specific 3' end of a PCR primer used in primer extension
CC      experiment to detect polymorphisms in CRYBB1
XX
SQ      Sequence 10 BP; 0 A; 4 C; 2 G; 4 T; 0 U; 0 Other;
Query Match      12.0%; Score 2.4; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 1.8e+02;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      9 AGTC 12
Db      |||
        6 AGAC 3

RESULT 204
ABF03676
ID      ABF03676 standard; DNA; 13 BP.
XX
AC      ABF03676;
XX
DT      21-FEB-2002 (first entry)
XX
DE      Oligonucleotide SEQ ID NO 103673 for detecting SNP TSC0025934.
XX
KW      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS      Homo sapiens.
XX
PN      WO200177384-A2.
XX
PD      18-OCT-2001.
XX
PF      06-APR-2001; 2001WO-IB000713.
XX
PR      07-APR-2000; 2000DE-01019173.
XX
PA      (EPIG-) EPIGENOMICS AG.
XX
PI      Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
PT      Set of oligonucleotides, useful for diagnosis and cell typing, is
PT      designed to detect single-nucleotide polymorphisms and cytosine
PT      methylation status.
XX
PS      Claim 1; SEQ ID NO 103673; 29pp + Sequence Listing; German.
XX
CC      This invention describes novel oligonucleotide primers or peptide nucleic
CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC      and cytosine methylation status in chemically pretreated genomic DNA. The
CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC      range of diseases including immune system, gastrointestinal, respiratory,
CC      central nervous system, cardiovascular and metabolic disorders. The
CC      oligomers are also used for detecting cell type differentiation. ABC00010
CC      -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI02073
CC      represent the oligomers described in the invention. NOTE: The sequence
CC      data for this patent did not form part of the printed specification, but
CC      was obtained in electronic format from WIPO at
CC      ftp.wipo.int/pub/published_pct_sequences
XX
SQ      Sequence 13 BP; 5 A; 1 C; 6 G; 1 T; 0 U; 0 Other;
Query Match      12.0%; Score 2.4; DB 1; Length 13;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      9 AGTC 12
Db      |||
        4 AGAC 7

RESULT 205
ABF03677/c
ID      ABF03677 standard; DNA; 13 BP.
XX
AC      ABF03677;
XX
DT      21-FEB-2002 (first entry)
XX

```

DE Oligonucleotide SEQ ID NO 103674 for detecting SNP TSC0025934.
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX Homo sapiens.
XX WO200177384-A2.
XX 18-OCT-2001.
XX 06-APR-2001; 2001WO-IB000713.
XX 07-APR-2000; 2000DE-01019173.
XX (EPIG-) EPIGENOMICS AG.
XX Olek A, Piepenbrock C, Berlin K;
XX WPI; 2001-657177/75.
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX Claim 1; SEQ ID NO 103674; 29pp + Sequence Listing; German.
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: the sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX Sequence 13 BP; 1 A; 6 C; 1 G; 5 T; 0 U; 0 Other;
SQ Query Match 12.0%; Score 2.4; DB 1; Length 13;
Best Local Similarity 75.0%; Pred. No. 1.6e+02;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 9 AGTC 12
Db 10 AGAC 7
RESULT 206
ADQ33489
ID ADQ33489 standard; DNA; 11 BP.
XX AC ADQ33489;
XX 23-SEP-2004 (first entry)
DE Human facial skin-associated DNA fragment SEQ ID NO 1579.
XX facial skin; human; serial analysis of gene expression; SAGE;
KW homeostasis; biochip; cosmetic; pharmaceutical; ds.
XX Homo sapiens.
XX OS
XX DE10260928-A1.
XX 08-JUL-2004.
XX 20-DEC-2002; 2002DE-01060928.
XX
XX
PR 20-DEC-2002; 2002DE-01060928.
XX (HENK) HENKEL KGAA.
XX Petersohn D, Schlotmann K, Gassenmeier T, Holtkoetter O;
PI Conrads M, Hofmann K;
XX WPI; 2004-518855/50.
XX In vitro identification of genes important for facial skin, useful for
PT assessing homeostasis and in screening for pharmaceutical or cosmetic
PT agents, based on differential expression analysis.
XX Claim 5; SEQ ID NO 1579; 57pp; German.
XX This invention describes a novel in vitro method for identifying genes
CC that are significant for facial skin in humans. The method comprises
CC recovering, from facial skin, a first mixture of genetically expressed
CC (transcribed and optionally translated) factors (i.e. proteins, mRNA or
CC their fragments), recovering a second, similar mixture from some other
CC human tissue, preferably skin from a protected area, especially from the
CC breast and subjecting the mixtures to serial analysis of gene expression
CC (SAGE) to identify those genes for which expression is markedly different
CC between facial skin and the other tissue. The invention also describes an
CC in vitro method for determining homeostasis of human facial skin; a test
CC kit which comprises a solid support (flexible or rigid) on which are
CC immobilised probes that bind specifically to the factors of interest and
CC a biochip for determining homeostasis of human facial skin. The products
CC of the invention are also used in a method which determines activity of
CC cosmetic and pharmaceutical agents for use against disorders or
CC disturbances of the homeostasis of human skin and a screening method for
CC identifying cosmetic and pharmaceutical agents. The method allows
CC identification of as many as possible of the genes important for facial
CC skin and thus of a very wide range of potential therapeutic and cosmetic
CC agents. ADQ31911-ADQ35111 represent human DNA Tag fragments used to
CC identify the facial skin-associated genes described in the invention.
XX Sequence 11 BP; 5 A; 1 C; 4 G; 1 T; 0 U; 0 Other;
SQ Query Match 11.0%; Score 2.2; DB 1; Length 11;
Best Local Similarity 57.1%; Pred. No. 1.8e+02;
Matches 4; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 9 AGTCCTCT 15
Db 3 AGAAACT 9
RESULT 207
AAF38748
ID AAF38748 standard; DNA; 10 BP.
XX AC AAF38748;
XX 23-MAR-2001 (first entry)
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5487.
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX Saccharomyces cerevisiae.
XX OS
XX WO200077214-A2.
XX 21-DEC-2000.
XX 14-JUN-2000; 2000WO-US016223.
XX 16-JUN-1999; 99US-00335032.
XX

PA (UYJO) UNIV JOHNS HOPKINS.
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
DR
XX
XX
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 196; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 5 A; 1 C; 4 G; 0 T; 0 U; 0 Other;
Query Match 10.0%; Score 2; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 17 CG 18
Db 3 CG 4
RESULT 208
ID AAF38731 standard; DNA; 10 BP.
XX
XX AAF38731;
XX
XX 23-MAR-2001 (first entry)
DT
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5470.
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
XX
XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX

XX
PR 16-JUN-1999; 99US-00335032.
XX
PA (UYJO) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
PI WPI; 2001-061874/07.
XX
XX
DR
XX
XX
PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
PS Example; Page 195; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
SQ Sequence 10 BP; 7 A; 1 C; 2 G; 0 T; 0 U; 0 Other;
Query Match 10.0%; Score 2; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 17 CG 18
Db 3 CG 4
RESULT 209
ID AAF33728 standard; DNA; 10 BP.
XX
XX AAF33728;
XX
XX 23-MAR-2001 (first entry)
DT
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:467.
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
XX
XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX

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PD 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO ) UNIV JOHNS HOPKINS.
XX
XX Velulescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX
XX Claim 1; Page 391; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention.
XX
XX Sequence 10 BP; 5 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 10.0%; Score 2; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 1.9e+02;
XX Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX Qy 9 AG 10
XX ||
XX 3 AG 4
XX
XX Db
XX
XX RESULT 210
XX AAF34632
XX ID AAF34632 standard; DNA; 10 BP.
XX
XX AC AAF34632;
XX
XX XX
XX DT 23-MAR-2001 (first entry)
XX
XX DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1371.
XX
XX KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX OS Saccharomyces cerevisiae.

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XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO ) UNIV JOHNS HOPKINS.
XX
XX Velulescu V, Vogelstein B, Kinzler K;
XX WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
XX gene expression (SAGE) tags, useful for studying, monitoring and
XX affecting phases of the cell cycle.
XX
XX Example; Page 49; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF33268 to AAF44064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention.
XX
XX Sequence 10 BP; 5 A; 0 C; 4 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 10.0%; Score 2; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 1.9e+02;
XX Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX Qy 9 AG 10
XX ||
XX 3 AG 4
XX
XX Db
XX
XX RESULT 211
XX AAF36782/c
XX ID AAF36782 standard; DNA; 10 BP.
XX
XX AC AAF36782;
XX
XX XX
XX DT 23-MAR-2001 (first entry)
XX
XX DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3521.
XX
XX KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
XX nor previously assigned open reading frame; nonannotated ORF; SAGE;
XX serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX KW serial analysis of gene expression; antifungal; tag; identification;

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KW linker; PCR primer; ds.
 XX Saccharomyces cerevisiae.
 OS WO2000077214-A2.
 XX 21-DEC-2000.
 XX 14-JUN-2000; 2000WO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UWJO) UNIV JOHNS HOPKINS.
 XX Velulescu V, Vogelstein B, Kinzler K;
 XX WPI; 2001-061874/07.
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX Example; Page 125; 419pp; English.
 PS The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame, or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX Sequence 10 BP; 1 A; 2 C; 1 G; 6 T; 0 U; 0 Other;
 SQ Query Match 10.0%; Score 2; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 1.9e+02;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 17 CG 18
 Db 6 CG 5
 RESULT 212
 ID ADG64354
 AC ADG64354 standard; DNA; 11 BP.
 XX ADG64354;
 XX 11-MAR-2004 (first entry)
 DT DNA polymerase 3'-5' exonuclease domain related PCR primer SEQ ID NO:39.
 XX
 XX

KW thermostable DNA polymerase; thermoactive DNA polymerase;
 KW 3'-5' exonuclease domain; mutagenesis; genetic engineering;
 KW genetic fingerprinting; forensic; cloning; infectious agent;
 KW genetic disease; DNA polymerase; PCR primer; ss.
 XX Synthetic.
 OS EPI350841-A2.
 XX 08-OCT-2003.
 XX 31-MAR-2003; 2003EP-00006888.
 XX 02-APR-2002; 2002US-0369815P.
 XX (HOFF) ROCHE DIAGNOSTICS GMBH.
 XX (HOFF) HOFFMANN LA ROCHE & CO AG F.
 XX Schoenbrunner NJ, Myers TW, Gelfland DH;
 XX WPI; 2003-815070/77.
 XX New thermostable or thermoactive DNA polymerases with attenuated 3'-5'
 PT exonuclease activity, useful in polymerase chain reaction for in vitro
 PT mutagenesis and engineering of DNA, or genetic fingerprinting of forensic
 PT samples.
 XX Example 1; SEQ ID NO 39; 80pp; English.
 PS The present invention describes an isolated thermostable or thermoactive
 CC DNA polymerase. The DNA polymerase comprises: (a) a 3'-5' exonuclease
 CC domain which exhibits an attenuated 3'-5' exonuclease activity of about
 CC 6.5 or less, but greater than 0, u/pmol, measured using the Standard
 CC Assay; or (b) a 3'-5' exonuclease domain, and having a 5'-3' polymerase
 CC activity and an attenuated 3'-5' exonuclease activity, where the ratio of
 CC the 5'-3' polymerase activity in u/pmol to the 3'-5' exonuclease activity
 CC in u/pmol is about 100-1. The thermostable or thermoactive DNA
 CC polymerases are useful in recombinant DNA techniques or polymerase chain
 CC reaction for in vitro mutagenesis and engineering of DNA, genetic
 CC fingerprinting of forensic samples, direct cloning from genomic DNA or
 CC cDNA, assays for the presence of infectious agents, or parental diagnosis
 CC of genetic disease. The DNA polymerase provides a significant improvement
 CC over thermostable or thermoactive DNA polymerases of prior art. The
 CC present DNA polymerases reduce degradation of primers as compared to wild
 CC type thermostable or thermoactive DNA polymerases. The DNA polymerases
 CC can be easily and efficiently expressed to a high level in a recombinant
 CC expression system, which facilitates commercial production of the enzyme,
 CC and they readily incorporate nucleoside triphosphate analogues, in
 CC contrast to thermostable archae proofreading DNA polymerase. The present
 CC sequence is used in the exemplification of the present invention.
 XX Sequence 11 BP; 5 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
 SQ Query Match 10.0%; Score 2; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 1.8e+02;
 Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 17 CG 18
 Db 1 CG 2

Search completed: April 23, 2006, 11:43:24
 Job time : 1 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 23, 2006, 11:44:44 ; Search time 0.001 Seconds
(without alignments)
9.040 Million cell updates/sec

Title: US-10-728-399-1

Perfect score: 20

Sequence: 1 ttgtctccagctcttcgtt 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 24 seqs, 226 residues

Total number of hits satisfying chosen parameters: 48

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : rni.subdb:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
C 1	13.8	69.0	17	1	US-09-866-108A-9344
C 2	13.8	69.0	17	1	US-09-866-108A-9345
C 3	13.8	69.0	17	1	US-09-866-108A-9346
C 4	8.4	42.0	10	1	US-08-701-270-9
C 5	8.4	42.0	10	1	US-09-579-536C-43
C 6	8.4	40.0	8	1	US-08-859-954-75
C 7	8.4	40.0	8	1	US-08-859-954-264
C 8	8.4	40.0	8	1	US-08-859-954-501
C 9	8.4	40.0	10	1	US-10-042-111-9
C 10	7.4	37.0	9	1	US-08-605-163-16
C 11	7.4	35.0	8	1	US-08-859-954-44
C 12	7.4	35.0	8	1	US-08-859-954-74
C 13	7.4	35.0	8	1	US-08-859-954-177
C 14	7.4	35.0	8	1	US-08-859-954-198
C 15	7.4	35.0	8	1	US-08-859-954-199
C 16	7.4	35.0	8	1	US-08-859-954-263
C 17	7.4	35.0	8	1	US-08-859-954-357
C 18	7.4	35.0	8	1	US-08-859-954-370
C 19	7.4	35.0	8	1	US-08-859-954-401
C 20	7.4	35.0	8	1	US-08-859-954-491
C 21	7.4	35.0	8	1	US-08-859-954-500
C 22	7.4	35.0	8	1	US-08-859-954-566
C 23	7.4	35.0	8	1	US-09-910-469-43
C 24	7.4	35.0	8	1	US-09-910-469-44
C 25	4.8	24.0	9	1	US-08-605-163-16
C 26	4.4	22.0	8	1	US-08-859-954-177
C 27	4.2	21.0	10	1	US-10-042-111-9
C 28	3.8	19.0	8	1	US-08-859-954-198
C 29	3.8	19.0	8	1	US-08-859-954-500
C 30	3.4	17.0	8	1	US-08-859-954-199
C 31	3.4	17.0	8	1	US-08-859-954-357
C 32	3.4	17.0	8	1	US-08-859-954-370
C 33	3.4	17.0	8	1	US-08-859-954-491

C 34	3.4	17.0	8	1	US-09-910-469-43	Sequence 43, Appl
C 35	3.4	17.0	8	1	US-09-910-469-44	Sequence 44, Appl
C 36	3.4	17.0	17	1	US-09-866-108A-9344	Sequence 9344, Ap
C 37	3.4	17.0	17	1	US-09-866-108A-9345	Sequence 9345, Ap
C 38	3.4	17.0	17	1	US-09-866-108A-9346	Sequence 9346, Ap
C 39	3	15.0	8	1	US-08-859-954-566	Sequence 566, App
C 40	3	15.0	10	1	US-08-701-270-9	Sequence 9, Appli
C 41	2.8	14.0	8	1	US-08-859-954-501	Sequence 501, App
C 42	2.4	12.0	8	1	US-08-859-954-75	Sequence 75, Appl
C 43	2.4	12.0	8	1	US-08-859-954-264	Sequence 264, App
C 44	2.4	12.0	8	1	US-08-859-954-44	Sequence 44, Appl
C 45	2.4	12.0	8	1	US-08-859-954-74	Sequence 74, Appl
C 46	2.4	12.0	8	1	US-08-859-954-401	Sequence 401, App
C 47	2	10.0	8	1	US-08-859-954-263	Sequence 263, App
C 48	2	10.0	10	1	US-08-579-536C-43	Sequence 43, Appl

ALIGNMENTS

RESULT 1
US-09-866-108A-9344/c
; Sequence 9344, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866.108A
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/006666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/006663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeonica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9344
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9344

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 0.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TCTCCAGCTCTTCGTT 20

Db 17 TCCCCAGCCTTCGTT 1

RESULT 2

US-09-866-108A-9345/c
; Sequence 9345, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeoica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9346

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 0.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGT 19
Db 17 GTCCCCAGCCTCTTCGT 1

RESULT 3

US-09-866-108A-9346/c
; Sequence 9346, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 0.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGT 19
Db 17 GTCCCCAGCCTCTTCGT 1

; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeoica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9346

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 0.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGTCTCCAGTCTCTTCG 18
Db 17 GTCCCCAGCCTCTTCG 1

RESULT 4

US-08-701-270-9
; Sequence 9, Application US/08701270
; Patent No. 5702926
; GENERAL INFORMATION:
; APPLICANT: Fraiser, Melinda S.
; APPLICANT: Walker, George I.
; TITLE OF INVENTION: STRAND DISPLACEMENT AMPLIFICATION USING BORONATED NUCLEOTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and Company
; ADDRESS: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/701,270
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fugit, Donna R.
; REGISTRATION NUMBER: 32,135
; REFERENCE/DOCKET NUMBER: P-3556
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs


```
;
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
US-08-701-270-9

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12
Db 1 GTCTCCAATC 10

RESULT 5
US-09-579-536C-43/c
; Sequence 43, Application US/09579536C
; Patent No. 6716974
; GENERAL INFORMATION:
; APPLICANT: NACIAG, Thomas
; APPLICANT: ZIMRIN, Ann
; APPLICANT: SMALL, Deena
; APPLICANT: PRUDOVSKY, Igor
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC METHODS AND COMPOSITIONS BASED ON JAGC
; TITLE OF INVENTION: PROTEINS AND NUCLEIC ACIDS
; FILE REFERENCE: 053689-5002-01
; CURRENT APPLICATION NUMBER: US/09/579,536C
; CURRENT FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/199,865
; PRIOR FILING DATE: 1998-11-25
; PRIOR APPLICATION NUMBER: PCR/US97/09407
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/018,841
; PRIOR FILING DATE: 1996-05-31
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-579-536C-43

Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 4.3;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 11 TCTCTTCGTT 20
Db 10 TCTCTTCCTT 1

RESULT 6
US-08-859-954-75/c
; Sequence 75, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
```

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;
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 75:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-75

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCC 8
Db 8 TTGTCTCC 1

RESULT 7
US-08-859-954-264/c
; Sequence 264, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
```

INFORMATION FOR SEQ ID NO: 264:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-264

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 10 GTCTCTTC 17
Db 8 GTCTCTTC 1

RESULT 8
US-08-859-954-501/c
Sequence 501, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELECOMMUNICATION INFORMATION:
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 501:

SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-501

Query Match 40.0%; Score 8; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
Db 8 TCTCCAGT 1

RESULT 9
US-10-042-111-9/c
Sequence 9, Application US/10042111
Patent No. 6551476
GENERAL INFORMATION:
APPLICANT: ZHEJIANG ACADEMY OF AGRICULTURAL SCIENCES
APPLICANT: CHEN, Jinqing
TITLE OF INVENTION: A METHOD FOR CONTROLLING RATIO OF PROTEINS/LIPIDS IN CROP SEEDS
FILE REFERENCE: ref.
CURRENT APPLICATION NUMBER: US/10/042,111
CURRENT FILING DATE: 2002-05-08
PRIOR APPLICATION NUMBER: CN 99124511.3
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 46
SOFTWARE: PatentIn version 3.1
SEQ ID NO 9
LENGTH: 10
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc feature
OTHER INFORMATION: primer
US-10-042-111-9

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 4.7;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCAGTTC 12
Db 9 CTCAGTTC 2

RESULT 10
US-08-605-163-16
Sequence 16, Application US/08605163
Patent No. 5879886
GENERAL INFORMATION:
APPLICANT: Meo, Tommaso
APPLICANT: Tosi, Mario
APPLICANT: Verpy, Elisabeth
APPLICANT: Biasotto, Michel
TITLE OF INVENTION: Method for Detecting Molecules
TITLE OF INVENTION: Containing Nucleotide Mismatches and the Location of These
TITLE OF INVENTION: Mismatches, and Application to the Detection of Base
TITLE OF INVENTION: Substitutions or Deletions in Nucleotide Sequences.
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSEE: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/605,163
FILING DATE: 08-MAR-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146

REFERENCE/DOCKET NUMBER: 05986.0005-00000
TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-605-163-16

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 18;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 2 TGTCTCCAG 10
Db 1 TGACTCCAG 9

RESULT 11
US-08-954-44
Sequence 44, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION/DOCKET NUMBER: 32,714
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-954-44

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 10 GTCTCTT 16
Db 2 GTCTCTT 8

RESULT 12
US-08-859-954-74/c
Sequence 74, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION/DOCKET NUMBER: 32,714
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 74:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-74

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCTCC 8
Db 7 TGTCTCC 1

RESULT 13
US-08-859-954-177
Sequence 177, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.

;; TITLE OF INVENTION: Design and Optimized Primer Library for
;; NUMBER OF SEQUENCES: 566
;; CORRESPONDENCE ADDRESS:
;; ADDRESSEE: Fulbright & Jaworski L.L.P.
;; STREET: 1301 McKinney, Suite 5100
;; CITY: Houston
;; STATE: Texas
;; COUNTRY: U.S.A.
;; ZIP: 77010-3095

;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30

;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/859,954
;; FILING DATE:
;; CLASSIFICATION:

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/632,782
;; FILING DATE:

;; ATTORNEY/AGENT INFORMATION:
;; NAME: Paul, Thomas D.

;; REGISTRATION NUMBER: 32,714

;; REFERENCE/DOCKET NUMBER: D-5900

;; TELEPHONE: 713/651-5325

;; TELEFAX: 713/651-5246

;; INFORMATION FOR SEQ ID NO: 177:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 8 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: single

;; TOPOLOGY: linear

;; MOLECULE TYPE: other nucleic acid

;; DESCRIPTION: /desc = "oligonucleotide"

;; HYPOTHETICAL: YES

;; ANTI-SENSE: YES

;; US-08-859-954-177

Query Match 35.0%; Score 7; DB 1; Length 8;

Best Local Similarity 100.0%; Pred. No. 20;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCTCT 15

Db 2 AGTCTCT 8

RESULT 14

US-08-859-954-198/c

Sequence 198, Application US/08859954

Patent No. 6083695

GENERAL INFORMATION:

APPLICANT: Hardin, Susan H.

APPLICANT: Homayouni, Ramin

APPLICANT: Hardin, Paul E.

TITLE OF INVENTION: Design and Optimized Primer Library for

TITLE OF INVENTION: Gene Sequencing and Method Thereof

NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

;;

;; CURRENT APPLICATION DATA:
;; APPLICATION NUMBER: US/08/859,954
;; FILING DATE:
;; CLASSIFICATION:

;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/632,782
;; FILING DATE:

;; ATTORNEY/AGENT INFORMATION:
;; NAME: Paul, Thomas D.

;; REGISTRATION NUMBER: 32,714

;; REFERENCE/DOCKET NUMBER: D-5900

;; TELEPHONE: 713/651-5325

;; TELEFAX: 713/651-5246

;; INFORMATION FOR SEQ ID NO: 198:

;; SEQUENCE CHARACTERISTICS:

;; LENGTH: 8 base pairs

;; TYPE: nucleic acid

;; STRANDEDNESS: single

;; TOPOLOGY: linear

;; MOLECULE TYPE: other nucleic acid

;; DESCRIPTION: /desc = "oligonucleotide"

;; HYPOTHETICAL: YES

;; ANTI-SENSE: YES

;; US-08-859-954-198

Query Match 35.0%; Score 7; DB 1; Length 8;

Best Local Similarity 100.0%; Pred. No. 20;

Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGTCTC 14

Db 7 CAGTCTC 1

RESULT 15

US-08-859-954-199/c

Sequence 199, Application US/08859954

Patent No. 6083695

GENERAL INFORMATION:

APPLICANT: Hardin, Susan H.

APPLICANT: Homayouni, Ramin

APPLICANT: Hardin, Paul E.

TITLE OF INVENTION: Design and Optimized Primer Library for

TITLE OF INVENTION: Gene Sequencing and Method Thereof

NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESS:

ADDRESSEE: Fulbright & Jaworski L.L.P.

STREET: 1301 McKinney, Suite 5100

CITY: Houston

STATE: Texas

COUNTRY: U.S.A.

ZIP: 77010-3095

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: PatentIn Release #1.0, Version #1.30

;; CURRENT APPLICATION DATA:

;; APPLICATION NUMBER: US/08/859,954

;; FILING DATE:

;; CLASSIFICATION:

;; PRIOR APPLICATION DATA:

;; APPLICATION NUMBER: 08/632,782

;; FILING DATE:

;; ATTORNEY/AGENT INFORMATION:

;; NAME: Paul, Thomas D.

;; REGISTRATION NUMBER: 32,714

;; REFERENCE/DOCKET NUMBER: D-5900

;; TELEPHONE: 713/651-5325

;; TELEFAX: 713/651-5246

;; INFORMATION FOR SEQ ID NO: 199:

SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-199

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGTCTC 14
Db 7 CAGTCTC 1

RESULT 16

US-08-859-954-263/c
Sequence 263, Application US/08859954
Patent No. 6083695

GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof
NUMBER OF SEQUENCES: 566

CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 263:

SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-263

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TCTCTTC 17
Db 7 TCTCTTC 1

RESULT 17

US-08-859-954-357/c
Sequence 357, Application US/08859954
Patent No. 6083695

GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 357:

SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-357

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCA 9
Db 7 GTCTCCA 1

RESULT 18

US-08-859-954-370
Sequence 370, Application US/08859954
Patent No. 6083695

GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof

```
;
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 370:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-370

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCACTCT 13
Db 1 CCACTCT 7

RESULT 19
US-08-859-954-401/c
; Sequence 401, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; CURRENT APPLICATION DATA:
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
```

```
;
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 401:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-401

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCA 9
Db 8 GTCTCCA 2

RESULT 20
US-08-859-954-491/c
; Sequence 491, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; CURRENT APPLICATION DATA:
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 491:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
```

```
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-491

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13
Db 7 CCAGTCT 1

RESULT 21
US-08-859-954-500/c
; Sequence 500, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 500:
; SEQUENCE CHARACTERISTICS:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 500:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-500

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCAGT 11
Db 5 CTCAGT 11

; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-566/c
; Sequence 566, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 566:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-566

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCA 9
Db 8 GTCTCCA 2

RESULT 23
US-08-910-469-43
; Sequence 43, Application US/09910469
; Patent No. 6893822
; GENERAL INFORMATION:
; APPLICANT: Schweitzer, Markus
; APPLICANT: Anderson, Richard R.
; APPLICANT: Mueller, Jochen
; APPLICANT: Fiechtner, Michael
; APPLICANT: Bruecher, Christoph
; APPLICANT: Kienle, Stefan
; APPLICANT: Orwick, Jill
```

APPLICANT: Pignot, Marc
APPLICANT: Raddatz, Stefan
APPLICANT: Schneider, Eberhard
APPLICANT: Windhab, No. 6893822bert
TITLE OF INVENTION: Sorting and Immobilization System for Nucleic Acids Using Synthetic
FILE REFERENCE: 264/217 Nanogen Recognomics
CURRENT APPLICATION NUMBER: US/09/910,469
CURRENT FILING DATE: 2001-07-19
NUMBER OF SEQ ID NOS: 184
SOFTWARE: Patent in version 3.1
SEQ ID NO 43
LENGTH: 8
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic binding system
NAME/KEY: modified base
LOCATION: (1)..(8)
OTHER INFORMATION: pyranosyl RNA
US-09-910-469-43

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13
|||||
Db 1 CCAGTCT 7

RESULT 24
US-09-910-469-44/c
Sequence 44, Application US/09910469
Patent No. 6893822
GENERAL INFORMATION:
APPLICANT: Schweitzer, Markus
APPLICANT: Anderson, Richard R.
APPLICANT: Mueller, Jochen
APPLICANT: Fiechtner, Michael
APPLICANT: Bruecher, Christoph
APPLICANT: Kienle, Stefan
APPLICANT: Orwick, Jill
APPLICANT: Pignot, Marc
APPLICANT: Raddatz, Stefan
APPLICANT: Schneider, Eberhard
APPLICANT: Windhab, No. 6893822bert
TITLE OF INVENTION: Sorting and Immobilization System for Nucleic Acids Using Synthetic
FILE REFERENCE: 264/217 Nanogen Recognomics
CURRENT APPLICATION NUMBER: US/09/910,469
CURRENT FILING DATE: 2001-07-19
NUMBER OF SEQ ID NOS: 184
SOFTWARE: Patent in version 3.1
SEQ ID NO 44
LENGTH: 8
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic binding system
NAME/KEY: modified base
LOCATION: (1)..(8)
OTHER INFORMATION: pyranosyl RNA
US-09-910-469-44

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13
|||||
Db 8 CCAGTCT 2

RESULT 25
US-08-605-163-16/c
Sequence 16, Application US/08605163
Patent No. 5879886
GENERAL INFORMATION:
APPLICANT: Meo, Tommaso
APPLICANT: Tosi, Mario
APPLICANT: Verdy, Elisabeth
APPLICANT: Biasotto, Michel
TITLE OF INVENTION: Method for Detecting Molecules
TITLE OF INVENTION: Containing Nucleotide Mismatches and the Location of These
TITLE OF INVENTION: Mismatches, and Application to the Detection of Base
TITLE OF INVENTION: Substitutions or Deletions in Nucleotide Sequences.
NUMBER OF SEQUENCES: 22
CORRESPONDENCE ADDRESS:
ADDRESSEE: Finnegan, Henderson, Farabow, Garrett &
ADDRESSEE: Dunner
STREET: 1300 I Street, N.W.
CITY: Washington
STATE: D.C.
COUNTRY: USA
ZIP: 20005-3315
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/605,163
FILING DATE: 08-MAR-1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Meyers, Kenneth J.
REGISTRATION NUMBER: 25,146
REFERENCE/DOCKET NUMBER: 05986.0005-00000
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 408-4000
TELEFAX: (202) 408-4400
INFORMATION FOR SEQ ID NO: 16:
SEQUENCE CHARACTERISTICS:
LENGTH: 9 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-605-163-16

Query Match 24.0%; Score 4.8; DB 1; Length 9;
Best Local Similarity 75.0%; Pred. No. 18;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12
|||
Db 9 CTGGAGTC 2

RESULT 26
US-08-859-954-177/c
Sequence 177, Application US/08859954
Patent No. 6083695
GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas

;; COUNTRY: U.S.A.
;; ZIP: 77010-3095
;; COMPUTER READABLE FORM:
;; MEDIUM TYPE: Floppy disk
;; COMPUTER: IBM PC compatible
;; OPERATING SYSTEM: PC-DOS/MS-DOS
;; SOFTWARE: PatentIn Release #1.0, Version #1.30
;; CURRENT APPLICATION DATA: US/08/859,954
;; FILING DATE:
;; CLASSIFICATION:
;; PRIOR APPLICATION DATA:
;; APPLICATION NUMBER: 08/632,782
;; FILING DATE:
;; ATTORNEY/AGENT INFORMATION:
;; NAME: Paul, Thomas D.
;; REGISTRATION NUMBER: 32,714
;; REFERENCE/DOCKET NUMBER: D-5900
;; TELECOMMUNICATION INFORMATION:
;; TELEPHONE: 713/651-5325
;; TELEFAX: 713/651-5246
;; INFORMATION FOR SEQ ID NO: 177:
;; SEQUENCE CHARACTERISTICS:
;; LENGTH: 8 base pairs
;; TYPE: nucleic acid
;; STRANDEDNESS: single
;; TOPOLOGY: linear
;; MOLECULE TYPE: other nucleic acid
;; DESCRIPTION: /desc = "oligonucleotide"
;; HYPOTHETICAL: YES
;; ANTI-SENSE: YES
US-08-859-954-177

Query Match 22.0%; Score 4.4; DB 1; Length 8;
Best Local Similarity 83.3%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCTC 14
|||
Db 6 AGACTC 1

RESULT 27
US-10-042-111-9
; Sequence 9, Application US/10042111
; Patent No. 6551476
; GENERAL INFORMATION:
; APPLICANT: ZHEJIANG ACADEMY OF AGRICULTURAL SCIENCES
; TITLE OF INVENTION: A METHOD FOR CONTROLLING RATIO OF PROTEINS/LIPIDS IN CROP SEEDS
; FILE REFERENCE: ref.
; CURRENT APPLICATION NUMBER: US/10/042,111
; CURRENT FILING DATE: 2002-05-08
; PRIOR APPLICATION NUMBER: CN 99124511.3
; PRIOR FILING DATE: 1999-11-09
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: primer
US-10-042-111-9

Query Match 21.0%; Score 4.2; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 10;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 3 GTCTCCAGT 11
|||
Db 2 GACTGGAGT 10

RESULT 28
US-08-859-954-198
; Sequence 198, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 198:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-198

Query Match 19.0%; Score 3.8; DB 1; Length 8;
Best Local Similarity 71.4%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 9 AGTCTCT 15
|||
Db 2 AGACTGT 8

RESULT 29
US-08-859-954-500
; Sequence 500, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.

```

; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 500:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; US-08-859-954-500

Query Match 19.0%; Score 3.8; DB 1; Length 8;
Best Local Similarity 71.4%; Pred. No. 20;
Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAGT 11
Db 2 CTGGAGT 8

RESULT 30
US-08-859-954-199
; Sequence 199, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 357:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; PRIOR APPLICATION DATA:

; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:

```

```

; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 199:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; US-08-859-954-199

Query Match 17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 20;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 2 AGACT 6

RESULT 31
US-08-859-954-357
; Sequence 357, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 357:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear

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; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-357

Query Match      17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 20;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTCT 13
      ||||
Db      4 AGACT 8

RESULT 32
US-08-859-954-370/c
; Sequence 370, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 370:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-370

Query Match      17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 20;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTCT 13
      ||||
Db      7 AGACT 3

RESULT 33
US-08-859-954-491
; Sequence 491, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; TITLE OF INVENTION: Gene Sequencing and Method Thereof
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 491:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-491

Query Match      17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 20;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTCT 13
      ||||
Db      1 AGACT 5

RESULT 34
US-09-910-469-43/c
; Sequence 43, Application US/09910469
; Patent No. 6893822
; GENERAL INFORMATION:
; APPLICANT: Schweitzer, Markus
; APPLICANT: Anderson, Richard R.
; APPLICANT: Mueller, Jochen
; APPLICANT: Fiechener, Michael
; APPLICANT: Bruechner, Christoph
; APPLICANT: Kienle, Stefan
; APPLICANT: Orwick, Jill
; APPLICANT: Pignot, Marc
; APPLICANT: Raddatz, Stefan
; APPLICANT: Schneider, Eberhard
```

```

; APPLICANT: Windhab, No. 6893822bert
; TITLE OF INVENTION: Sorting and Immobilization System for Nucleic Acids Using Synthe
; TITLE OF INVENTION: Binding Systems
; FILE REFERENCE: 264/217 Nanogen Recognomics
; CURRENT APPLICATION NUMBER: US/09/910,469
; CURRENT FILING DATE: 2001-07-19
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (1)..(8)
; OTHER INFORMATION: pyranosyl RNA
US-09-910-469-43

Query Match          17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 20;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
   ||||
Db 7 AGACT 3

RESULT 35
US-09-910-469-44
; Sequence 44, Application US/09910469
; Patent No. 6893822
; GENERAL INFORMATION:
; APPLICANT: Schweitzer, Markus
; APPLICANT: Anderson, Richard R.
; APPLICANT: Mueller, Jochen
; APPLICANT: Fiechtner, Michael
; APPLICANT: Bruecher, Christoph
; APPLICANT: Kienle, Stefan
; APPLICANT: Orwick, Jill
; APPLICANT: Raddatz, Stefan
; APPLICANT: Pignot, Marc
; APPLICANT: Schneider, Eberhard
; APPLICANT: Windhab, No. 6893822bert
; TITLE OF INVENTION: Sorting and Immobilization System for Nucleic Acids Using Synthe
; TITLE OF INVENTION: Binding Systems
; FILE REFERENCE: 264/217 Nanogen Recognomics
; CURRENT APPLICATION NUMBER: US/09/910,469
; CURRENT FILING DATE: 2001-07-19
; NUMBER OF SEQ ID NOS: 184
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 44
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (1)..(8)
; OTHER INFORMATION: pyranosyl RNA
US-09-910-469-44

Query Match          17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 20;
Matches 4; Conservative 0; Mismatches 1; Indels 1; Gaps 0;

Qy 9 AGTCT 13
   ||||
Db 2 AGACT 6

RESULT 36
US-09-866-108A-9344
; Sequence 9344, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9344
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9344

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 6.9;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
   ||||
Db 8 AGGCT 12

RESULT 37
US-09-866-108A-9345
; Sequence 9345, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04

```

```
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9345

Query Match      17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 6.9;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTCT 13
Db      7 AGGCT 11

RESULT 38
US-09-866-108A-9346
; Sequence 9346, Application US/09866108A
; Patent No. 6686188
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wenheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108A
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755

; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9345

Query Match      17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 6.9;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTCT 13
Db      7 AGGCT 11

RESULT 39
US-08-859-954-566
; Sequence 566, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 566:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-566

Query Match      15.0%; Score 3; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTG 3
Db      1 TTG 3
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; SOFTWARE: Acomica Sequence Listing Engine
; Patent No. 6686188
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108A-9346

Query Match      17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 6.9;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      9 AGTCT 13
Db      6 AGGCT 10

RESULT 39
US-08-859-954-566
; Sequence 566, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 566:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-566

Query Match      15.0%; Score 3; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TTG 3
Db      1 TTG 3
```

```
RESULT 40
US-08-701-270-9/c
; Sequence 9, Application US/08701270
; Patent No. 5702926
; GENERAL INFORMATION:
; APPLICANT: Fraiser, Melinda S.
; APPLICANT: Walker, George T.
; TITLE OF INVENTION: STRAND DISPLACEMENT AMPLIFICATION USING
; BORONATED NUCLEOTIDES
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Richard J. Rodrick, Becton Dickinson and
; ADDRESSEE: Company
; STREET: 1 Becton Drive
; CITY: Franklin Lakes
; STATE: NJ
; COUNTRY: US
; ZIP: 07417
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/701.270
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Fugit, Donna R.
; REGISTRATION NUMBER: 32,135
; REFERENCE/DOCKET NUMBER: P-3556
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; US-08-701-270-9

Query Match 15.0%; Score 3; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTG 3
Db 8 TTG 6

RESULT 41
US-08-859-954-501
; Sequence 501, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; GENE SEQUENCING AND METHOD THEREOF
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 75:
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; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 501:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
; US-08-859-954-501

Query Match 14.0%; Score 2.8; DB 1; Length 8;
Best Local Similarity 66.7%; Pred. No. 20;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 2 CTGGAG 7

RESULT 42
US-08-859-954-75
; Sequence 75, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; GENE SEQUENCING AND METHOD THEREOF
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 75:
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SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-75

Query Match 12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
|||
Db 3 AGAC 6

RESULT 43

US-08-859-954-264
Sequence 264, Application US/08859954
Patent No. 6083695

GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 264:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-264

Query Match 12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
|||
Db 5 AGAC 8

RESULT 44

US-08-859-954-44/c
Sequence 44, Application US/08859954
Patent No. 6083695

GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof
NUMBER OF SEQUENCES: 566
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fulbright & Jaworski L.L.P.
STREET: 1301 McKinney, Suite 5100
CITY: Houston
STATE: Texas
COUNTRY: U.S.A.
ZIP: 77010-3095

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent In Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/859,954
FILING DATE:
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/632,782
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Paul, Thomas D.
REGISTRATION NUMBER: 32,714
REFERENCE/DOCKET NUMBER: D-5900
TELEPHONE: 713/651-5325
TELEFAX: 713/651-5246
INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: other nucleic acid
DESCRIPTION: /desc = "oligonucleotide"
HYPOTHETICAL: YES
ANTI-SENSE: YES
US-08-859-954-44

Query Match 12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
|||
Db 5 AGAC 2

RESULT 45

US-08-859-954-74
Sequence 74, Application US/08859954
Patent No. 6083695

GENERAL INFORMATION:
APPLICANT: Hardin, Susan H.
APPLICANT: Homayouni, Ramin
APPLICANT: Hardin, Paul E.
TITLE OF INVENTION: Design and Optimized Primer Library for
TITLE OF INVENTION: Gene Sequencing and Method Thereof

```
;
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 74:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-74

Query Match 12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 3 AGAC 6

RESULT 46
US-08-859-954-401
; Sequence 401, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 263:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
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```
;
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 401:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
;
US-08-859-954-401

Query Match 12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 20;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 5 AGAC 8

RESULT 47
US-08-859-954-263
; Sequence 263, Application US/08859954
; Patent No. 6083695
; GENERAL INFORMATION:
; APPLICANT: Hardin, Susan H.
; APPLICANT: Homayouni, Ramin
; APPLICANT: Hardin, Paul E.
; TITLE OF INVENTION: Design and Optimized Primer Library for
; NUMBER OF SEQUENCES: 566
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fulbright & Jaworski L.L.P.
; STREET: 1301 McKinney, Suite 5100
; CITY: Houston
; STATE: Texas
; COUNTRY: U.S.A.
; ZIP: 77010-3095
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/859,954
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/632,782
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Paul, Thomas D.
; REGISTRATION NUMBER: 32,714
; REFERENCE/DOCKET NUMBER: D-5900
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 713/651-5325
; TELEFAX: 713/651-5246
; INFORMATION FOR SEQ ID NO: 263:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 8 base pairs
```


; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: other nucleic acid
; DESCRIPTION: /desc = "oligonucleotide"
; HYPOTHETICAL: YES
; ANTI-SENSE: YES
US-08-859-954-263

Query Match 10.0%; Score 2; DB 1; Length 8;
Best Local Similarity 100.0%; Pred.No. 20;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 AG 10
||
DB 3 AG 4

RESULT 48
US-09-579-536C-43
; Sequence 43, Application US/09579536C
; Patent No. 6716974
; GENERAL INFORMATION:
; APPLICANT: MACIAG, Thomas
; APPLICANT: ZIMRIN, Ann
; APPLICANT: SMALL, Deena
; APPLICANT: PRUDOVSKY, Igor
; TITLE OF INVENTION: THERAPEUTIC AND DIAGNOSTIC METHODS AND COMPOSITIONS BASED ON JAGG
; FILE REFERENCE: 053689-5002-01
; CURRENT APPLICATION NUMBER: US/09/579,536C
; CURRENT FILING DATE: 2000-05-24
; PRIOR APPLICATION NUMBER: US 09/199,865
; PRIOR FILING DATE: 1998-11-25
; PRIOR APPLICATION NUMBER: PCT/US97/09407
; PRIOR FILING DATE: 1997-05-30
; PRIOR APPLICATION NUMBER: US 60/018,841
; PRIOR FILING DATE: 1996-05-31
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Mus musculus
US-09-579-536C-43

Query Match 10.0%; Score 2; DB 1; Length 10;
Best Local Similarity 100.0%; Pred.No. 14;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 AG 10
||
DB 2 AG 3

Search completed: April 23, 2006, 11:44:45
Job time : 1 secs

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: April 23, 2006, 11:37:56 ; Search time 0.001 Seconds
(without alignments)
19.200 Million cell updates/sec

Title: US-10-728-399-1
Perfect score: 20
Sequence: 1 ttgtctccagctcttcgtt 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 44 seqs, 480 residues

Total number of hits satisfying chosen parameters: 88

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : rge.subdb:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	13.8	69.0	17	1	ACCESSION: CQ624604
C 2	13.8	69.0	17	1	ACCESSION: CQ624605
C 3	13.8	69.0	17	1	ACCESSION: CQ624606
C 4	13.8	69.0	17	1	ACCESSION: AR465667
C 5	13.8	69.0	17	1	ACCESSION: AR465668
C 6	13.8	69.0	17	1	ACCESSION: AR465669
C 7	9.4	47.0	11	1	ACCESSION: CQ835687
C 8	9.4	47.0	11	1	ACCESSION: CQ835687
C 9	9.4	47.0	11	1	ACCESSION: CQ835687
C 10	9.4	47.0	11	1	ACCESSION: CQ835687
C 11	9.4	47.0	11	1	ACCESSION: CQ835687
C 12	9.4	47.0	11	1	ACCESSION: CQ835687
C 13	9.4	47.0	11	1	ACCESSION: CQ835687
C 14	9.4	47.0	11	1	ACCESSION: CQ835687
C 15	9.4	47.0	11	1	ACCESSION: CQ835687
C 16	9.4	47.0	11	1	ACCESSION: CQ835687
C 17	9.4	47.0	11	1	ACCESSION: CQ835687
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C 19	8.4	42.0	10	1	ACCESSION: A04820
C 20	8.4	42.0	10	1	ACCESSION: A04820
C 21	8.4	42.0	10	1	ACCESSION: A04820
C 22	8.4	42.0	10	1	ACCESSION: A04820
C 23	8.4	42.0	10	1	ACCESSION: A04820
C 24	8.4	42.0	10	1	ACCESSION: A04820
C 25	8.4	42.0	10	1	ACCESSION: A04820
C 26	8.4	42.0	10	1	ACCESSION: A04820
C 27	8.4	42.0	10	1	ACCESSION: A04820
C 28	8.4	42.0	10	1	ACCESSION: A04820
C 29	8.4	42.0	10	1	ACCESSION: A04820
C 30	8.4	42.0	10	1	ACCESSION: A04820
C 31	8.4	42.0	10	1	ACCESSION: A04820
C 32	8.4	42.0	10	1	ACCESSION: A04820
C 33	8.4	42.0	10	1	ACCESSION: A04820

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35	7.4	37.0	9	1	CS133813	ACCESSION: CS133813
c 36	7.4	37.0	9	1	CS133814	ACCESSION: CS133814
37	7.4	37.0	9	1	CS133839	ACCESSION: CS133839
38	7.4	37.0	9	1	CS133878	ACCESSION: CS133878
39	7.4	37.0	9	1	CS133889	ACCESSION: CS133889
40	7.4	37.0	9	1	CS133890	ACCESSION: CS133890
c 41	7.4	37.0	9	1	CS133996	ACCESSION: CS133996
42	7	35.0	8	1	CQ87902	ACCESSION: CQ87902
43	7	35.0	8	1	AX687122	ACCESSION: AX687122
c 44	7	35.0	8	1	AX687123	ACCESSION: AX687123
c 45	5	25.0	9	1	CS133878	ACCESSION: CS133878
c 46	4.8	24.0	11	1	CQ835687	ACCESSION: CQ835687
c 47	4.4	22.0	9	1	CS133839	ACCESSION: CS133839
c 48	4.2	21.0	10	1	CS101372	ACCESSION: CS101372
49	4.2	21.0	10	1	E27858	ACCESSION: E27858
50	4.2	21.0	10	1	AR306857	ACCESSION: AR306857
c 51	4	20.0	11	1	AX629950	ACCESSION: AX629950
52	3.8	19.0	10	1	A04820	ACCESSION: A04820
c 53	3.6	18.0	11	1	AX626980	ACCESSION: AX626980
c 54	3.4	17.0	8	1	AX687122	ACCESSION: AX687122
55	3.4	17.0	8	1	AX687123	ACCESSION: AX687123
56	3.4	17.0	9	1	CS133814	ACCESSION: CS133814
57	3.4	17.0	10	1	BD161349	ACCESSION: BD161349
c 58	3.4	17.0	10	1	AX152820	ACCESSION: AX152820
c 59	3.4	17.0	10	1	AX301623	ACCESSION: AX301623
60	3.4	17.0	11	1	AX624946	ACCESSION: AX624946
61	3.4	17.0	11	1	AX632367	ACCESSION: AX632367
62	3.4	17.0	11	1	AX471575	ACCESSION: AX471575
63	3.4	17.0	11	1	AX626145	ACCESSION: AX626145
64	3.4	17.0	17	1	CQ624604	ACCESSION: CQ624604
65	3.4	17.0	17	1	CQ624605	ACCESSION: CQ624605
66	3.4	17.0	17	1	CQ624606	ACCESSION: CQ624606
67	3.4	17.0	17	1	AR465667	ACCESSION: AR465667
68	3.4	17.0	17	1	AR465668	ACCESSION: AR465668
69	3.4	17.0	17	1	AR465669	ACCESSION: AR465669
70	3.2	16.0	10	1	BD239234	ACCESSION: BD239234
71	3.2	16.0	11	1	AX623703	ACCESSION: AX623703
72	3.2	16.0	11	1	AX631124	ACCESSION: AX631124
c 73	3	15.0	10	1	I86909	ACCESSION: I86909
c 74	2.8	14.0	10	1	BD065278	ACCESSION: BD065278
c 75	2.8	14.0	10	1	BD161225	ACCESSION: BD161225
c 76	2.8	14.0	10	1	E39559	ACCESSION: E39559
c 77	2.8	14.0	10	1	AX152455	ACCESSION: AX152455
c 78	2.8	14.0	10	1	AX301660	ACCESSION: AX301660
c 79	2.4	12.0	8	1	CQ87902	ACCESSION: CQ87902
c 80	2.4	12.0	9	1	CS133813	ACCESSION: CS133813
c 81	2.4	12.0	9	1	CS133890	ACCESSION: CS133890
82	2.4	12.0	9	1	CS133996	ACCESSION: CS133996
83	2.4	12.0	10	1	A11620	ACCESSION: A11620
84	2.4	12.0	10	1	A35162	ACCESSION: A35162
85	2.2	11.0	11	1	CQ836521	ACCESSION: CQ836521
c 86	2	10.0	9	1	CS133889	ACCESSION: CS133889
87	2	10.0	10	1	AR492617	ACCESSION: AR492617
88	2	10.0	11	1	AX924254	ACCESSION: AX924254

ALIGNMENTS

RESULT 1	CQ624604/c	17 bp	DNA	linear	PAT 02-FEB-2004
LOCUS	Sequence 9344 from Patent WO0192524.				
DEFINITION	CQ624604				
ACCESSION	CQ624604.1	GI:41674822			
VERSION					
KEYWORDS					
SOURCE	Homo sapiens (human)				
ORGANISM	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;				
	Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;				
REFERENCE	Hominidae; Homo.				

AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 9344 06-DEC-2001;
Aeomica, Inc. (US)
FEATURES Location/Qualifiers
source 1. .17
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.5;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 4 TCTCCAGTCTCTTCGTT 20
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Db 17 TCCCCAGCCTCTTCGTT 1
RESULT 2
LOCUS CQ624605/c 17 bp DNA linear PAT 02-FEB-2004
DEFINITION Sequence 9345 from Patent WO0192524.
ACCESSION CQ624605
VERSION CQ624605.1 GI:41674823
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 9345 06-DEC-2001;
Aeomica, Inc. (US)
FEATURES Location/Qualifiers
source 1. .17
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Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.5;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Db 17 GTCCCCAGCCTCTTCGTT 1
RESULT 3
LOCUS CQ624606/c 17 bp DNA linear PAT 02-FEB-2004
DEFINITION Sequence 9346 from Patent WO0192524.
ACCESSION CQ624606
VERSION CQ624606.1 GI:41674824
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 9346 06-DEC-2001;
Aeomica, Inc. (US)
FEATURES Location/Qualifiers
source 1. .17

AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 9344 06-DEC-2001;
Aeomica, Inc. (US)
FEATURES Location/Qualifiers
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/organism="Homo sapiens"
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Best Local Similarity 88.2%; Pred. No. 1.5;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 2 TGTCTCCAGTCTCTTCG 18
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Db 17 TGTCCCCAGCCTCTTCG 1
RESULT 4
LOCUS AR465667/c 17 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 9344 from patent US 6686188.
ACCESSION AR465667
VERSION AR465667.1 GI:42700724
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
TITLE Polynucleotide encoding a human myosin-like polypeptide expressed predominantly in heart and muscle
JOURNAL Patent: US 6686188-A 9344 03-FEB-2004;
Amersham PLC; Buckinghamshire; GBX;
FEATURES Location/Qualifiers
source 1. .17
/organism="unknown"
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Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.5;
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QY 4 TCTCCAGTCTCTTCGTT 20
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Db 17 TCCCCAGCCTCTTCGTT 1
RESULT 5
LOCUS AR465668/c 17 bp DNA linear PAT 20-FEB-2004
DEFINITION Sequence 9345 from patent US 6686188.
ACCESSION AR465668
VERSION AR465668.1 GI:42700725
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 17)
AUTHORS Gu, Y., Ji, Y., Penn, S.G., Hanzel, D.K., Rank, D.R., Chen, W. and Shannon, M.E.
TITLE Polynucleotide encoding a human myosin-like polypeptide expressed predominantly in heart and muscle
JOURNAL Patent: US 6686188-A 9345 03-FEB-2004;
Amersham PLC; Buckinghamshire; GBX;
FEATURES Location/Qualifiers
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/mol_type="genomic DNA"
Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 1.5;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
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Db      17 GTCCCGAGCCTCTTCGT 1
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RESULT 6
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DEFINITION Sequence 9346 from patent US 6686188.
ACCESSION AR465669
VERSION   AR465669.1 GI:42700726
KEYWORDS .
SOURCE   Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
AUTHORS  1 (bases 1 to 17)
          Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
          Shannon,M.E.
TITLE    Polynucleotide encoding a human myosin-like polypeptide expressed
          predominantly in heart and muscle
JOURNAL Patent: US 6686188-A 9346 03-FEB-2004;
          Amer sham PLC; Buckinghamshire;
          GBX;
FEATURES             Location/Qualifiers
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Best Local Similarity 88.2%; Pred.No.1.5;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy  2 TGTCTCCAGTCTCTTCG 18
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Db   17 TGTCGCCAGCCTCTTCG 1

RESULT 7
CQ835687/c
LOCUS   CQ835687                11 bp    DNA        linear     PAT 29-JUL-2004
DEFINITION Sequence 745 from Patent WO2004059001.
ACCESSION CQ835687
VERSION   CQ835687.1 GI:50835221
KEYWORDS .
SOURCE   Homo sapiens (human)
ORGANISM Homo sapiens
          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
          Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
          Homnidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
          Conradt,M. and Hofmann,K.
TITLE    Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 745 15-JUL-2004; (DE)
          Henkel Kommanditgesellschaft auf Aktien
FEATURES             Location/Qualifiers
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                        /organism="Homo sapiens"
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Best Local Similarity 90.9%; Pred.No.11;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy  1 TTGTCCTCAGT 11
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Db   11 TTGTCGTGCACT 1

RESULT 8
CQ836521/c
LOCUS   CQ836521                11 bp    DNA        linear     PAT 29-JUL-2004
DEFINITION Sequence 1579 from Patent WO2004059001.

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REFERENCE 1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 9409 11-JUL-2002; (DE)
           Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
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               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match 47.0%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 11;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CGACTCTCTTC 17
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Db 11 CCAGCCTCTTC 1

RESULT 11
AX471575/c
LOCUS      AX471575 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 1152 from Patent WO02053773.
ACCESSION  AX471575
VERSION    AX471575.1 GI:22206700
KEYWORDS   .
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
           Hominidae; Homo.
REFERENCE 1
AUTHORS    Hofmann,K., Conradt,M. and Petersohn,D.
TITLE      Method for determining skin stress or skin ageing in vitro
JOURNAL    Patent: WO 02053773-A 1152 11-JUL-2002;
           HENKEL KGAA (DE)
FEATURES   Location/Qualifiers
           1. .11
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17
    |||||
Db 10 AGTCTCTTC 2

RESULT 12
AX623703/c
LOCUS      AX623703 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 744 from Patent WO02053774.
ACCESSION  AX623703
VERSION    AX623703.1 GI:28451644
KEYWORDS   .
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
           Hominidae; Homo.
REFERENCE 1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 744 11-JUL-2002;
           Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCTCCAG 10
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Db 11 TGTCTCCAG 3

RESULT 13
AX626145/c
LOCUS      AX626145 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 3186 from Patent WO02053774.
ACCESSION  AX626145
VERSION    AX626145.1 GI:28454183
KEYWORDS   .
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
           Hominidae; Homo.
REFERENCE 1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 3186 11-JUL-2002;
           Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
           1. .11
               /organism="Homo sapiens"
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17
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Db 10 AGTCTCTTC 2

RESULT 14
AX626980/c
LOCUS      AX626980 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4021 from Patent WO02053774.
ACCESSION  AX626980
VERSION    AX626980.1 GI:28455018
KEYWORDS   .
SOURCE     Homo sapiens (human)
ORGANISM   Homo sapiens
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
           Hominidae; Homo.
REFERENCE 1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 4021 11-JUL-2002;
           Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES   Location/Qualifiers
           1. .11
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Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCTCCAG 10
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Db 3 TGTCTCCAG 11

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RESULT 15
LOCUS AX629950 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 6991 from Patent WO02053774.
ACCESSION AX629950
VERSION AX629950.1 GI:28457988
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Homo.
REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 6991 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 TGTCTCCAG 10
Db 3 TGTCTCCAG 11
RESULT 16
LOCUS AX631124/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 8165 from Patent WO02053774.
ACCESSION AX631124
VERSION AX631124.1 GI:28459168
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Homo.
REFERENCE
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 8165 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
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Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 2 TGTCTCCAG 10
Db 11 TGTCTCCAG 3
RESULT 17
LOCUS AX924254 11 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 39 from Patent EP1350841.
ACCESSION AX924254
VERSION AX924254.1 GI:40217178
KEYWORDS

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SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE
AUTHORS Schoenbrunner,N.J., Myers,T.W. and Gelfand,D.H.
TITLE Thermostable or thermostable DNA polymerase with attenuated
3'-5' exonuclease activity
JOURNAL Patent: EP 1350841-A 39 08-OCT-2003;
Roche Diagnostics GmbH (DE) ; F. HOFFMANN-LA ROCHE AG (CH)
FEATURES
source
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/db_xref="taxon:32630"
Query Match 45.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 12;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 11 TCTCTTCGT 19
Db 11 TCTCTTCGT 3
RESULT 18
LOCUS A04820/c 10 bp DNA linear PAT 14-JUL-1993
DEFINITION Nucleotide sequence 8 from patent number EP0143081.
ACCESSION A04820
VERSION A04820.1 GI:411098
KEYWORDS synthetic construct
SOURCE synthetic construct
other sequences; artificial sequences.
ORGANISM
REFERENCE
AUTHORS Meyhack,B. and Hinnen,A.
TITLE Synthesis of tissue plasminogen activator (TPA) by yeast
JOURNAL Patent: EP 0143081-A 8 29-MAY-1985;
CIBA-GEIGY AG
FEATURES
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Location/Qualifiers
/organism="synthetic construct"
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Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Qy 8 CAGTCTCTTC 17
Db 10 CAGTGTCTTC 1
RESULT 19
LOCUS BD239234/c 10 bp DNA linear PAT 17-JUL-2003
DEFINITION Preparation and use of superior vaccines.
ACCESSION BD239234
VERSION BD239234.1 GI:33049004
KEYWORDS JP 2002534056-A/652.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominoidea; Homo.
REFERENCE
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 652 15-OCT-2002;
GENZYME CORP
COMMENT
OS Homo sapiens (human)
PN JP 2002534056-A/652

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PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/08997,19-JUN-1998 US 60/090079 PR
19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR
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19-JUN-1998 US 60/089999,19-JUN-1998 US 60/090043 PR
19-JUN-1998 US 60/090042,19-JUN-1998 US 60/090036 PR
19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
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19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
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PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1..10
/organism='Homo sapiens (human)'.
FEATURES
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                /db_xref="taxon:9606"
Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 2 TGTCTCCAGT 11
Db 10 TGGCTCCAGT 1

RESULT 20
I86909
LOCUS I86909 10 bp DNA linear PAT 10-JUN-1998
DEFINITION Sequence 9 from patent US 5702926.
ACCESSION I86909
VERSION I86909.1 GI:3206627
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 10)
AUTHORS Fraiser,M.S. and Walker,G.Terrance.
TITLE Nicking of DNA using boronated nucleotides
JOURNAL Patent: US 5702926-A 9 30-DEC-1997;
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        Location/Qualifiers
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Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 3 GTCTCCAGTC 12
Db 1 GTCTCCAATC 10

RESULT 21
AR492617/c
LOCUS AR492617 10 bp DNA linear PAT 15-MAY-2004

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DEFINITION Sequence 43 from patent US 6716974.
ACCESSION AR492617
VERSION AR492617.1 GI:47262128
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 10)
AUTHORS MacIag,T., Zimin,A.B., Small,D.J. and Prudovsky,I.A.
TITLE Therapeutic and diagnostic methods and compositions based on
jagged/notch proteins and nucleic acids
JOURNAL Patent: US 6716974-A 43 06-APR-2004;
Maine Medical Center Research Institute; Scarborough, ME
FEATURES
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Query Match 42.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 TCTCTTCGTT 20
Db 10 TCTCTTCCTT 1

RESULT 22
AR1620/c
LOCUS AR1620 10 bp DNA linear PAT 17-NOV-1993
DEFINITION oligonucleotide 'M''.
ACCESSION AR1620
VERSION AR1620.1 GI:489366
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 10)
AUTHORS Ueda,I., Niwa,M., Saito,Y., Sato,S., Ono,H. and Kitaguchi,T.
TITLE 59 Valine insulin-like growth factor I and process for production
thereof
JOURNAL Patent: EP 0158892-A 116 23-OCT-1985;
FUJISAWA PHARMACEUTICAL CO., LTD
FEATURES
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                /mol_type="unassigned DNA"
                /db_xref="taxon:32630"
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TTGTCCTCC 8
Db 8 TTGTCCTCC 1

RESULT 23
AR35162/c
LOCUS AR35162 10 bp DNA linear PAT 06-DEC-1996
DEFINITION Synthetic IGF-I gene oligo.
ACCESSION AR35162
VERSION AR35162.1 GI:1926821
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 10)
AUTHORS Ueda,I., Niwa,M., Saitoh,S., Saitoh,Y. and Kusunoki,C.
TITLE Process for production of insulin-like growth factor I and plasmid
for production thereof
JOURNAL Patent: EP 0219814-A 112 29-APR-1987;

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    FUJISAWA PHARMACEUTICAL CO., LTD
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      /mol_type="unassigned DNA"
      /db_xref="taxon:32630"

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  Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCC 8
Db 8 TTGTCTCC 1

RESULT 24
BD065278
LOCUS BD065278 10 bp DNA linear PAT 27-AUG-2002
DEFINITION Characterization of the yeast transcriptome.
ACCESSION BD065278
VERSION BD065278.1 GI:22610881
KEYWORDS JP 2001509017-A/214.
SOURCE Saccharomyces cerevisiae (baker's yeast)
ORGANISM Saccharomyces cerevisiae
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
REFERENCE
  1 (bases 1 to 10)
  Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
  Characterization of the yeast transcriptome
  Patent: JP 2001509017-A 214 10-JUL-2001;
  THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
  OS Saccharomyces cerevisiae (yeast)
  PN JP 2001509017-A/214
  PD 10-JUL-2001
  PP 22-JAN-1998 JP 1998532117
  PR 23-JAN-1997 US 60/035917
  P1 VICTOR E VELCULESCU,BERT VOGELSTEIN,KENNETH W KINZLER PC
  C12N15/10,C12N15/31,C07K14/395,C12Q1/68,C12Q1/02 CC
  Characterization of the yeast transcriptome
  FH Key Location/Qualifiers
  FT source 1..10
  FT /organism="Saccharomyces cerevisiae (yeast)".

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      /organism="Saccharomyces cerevisiae"
      /mol_type="genomic DNA"
      /db_xref="taxon:4932"

Query Match
  Best Local Similarity 40.0%; Score 8; DB 1; Length 10;
  Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
Db 1 TCTCCAGT 8

RESULT 25
BD161225
LOCUS BD161225 10 bp DNA linear PAT 17-JAN-2003
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION BD161225
VERSION BD161225.1 GI:27866983
KEYWORDS JP 2002186482-A/47.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
  1 (bases 1 to 10)
  Nagai,S., Matsushima,K. and Hashimoto,S.
  Human activated Th1 and Th2 cell expression genes

FEATURES
  source
    Patent: JP 2002186482-A 47 02-JUL-2002;
    JAPAN SCIENCE AND TECHNOLOGY CORP
    OS Homo sapiens (human)
    PN JP 2002186482-A/47
    PD 02-JUL-2002
    PP 19-DEC-2000 JP 2000385816
    PI SHIGENORI NAGAI,KOJI MATSUSHIMA,SHINICHI HASHIMOTO PC
    C12N15/09,C07K14/47,C07K16/18,C12P21/08,C12N15/00 CC Human
    activated Th1 and Th2 cell expression genes FH Key
    Location/Qualifiers
    FT source 1..10
    FT /organism="Homo sapiens (human)".

FEATURES
  source
    Location/Qualifiers
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      /mol_type="genomic DNA"
      /db_xref="taxon:9606"

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Qy 6 TCCAGTCT 13
Db 8 TCCAGTCT 1

RESULT 27
CS101372
LOCUS CS101372 10 bp DNA linear PAT 10-JUN-2005
DEFINITION Sequence 21 from Patent WO2005045021.

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ACCESSION CS101372
VERSION CS101372.1 GI:67509818
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Desire,L.
TITLE Bace455, an alternative splice variant of the human beta-secretase
JOURNAL Patent: WO 2005045021-A 21 19-MAY-2005;
Exonhit Therapeutics S.A. (FR)

FEATURES
source
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="primer"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 CAGTCTCT 15
| | | | |
Db 1 CAGTCTCT 8

RESULT 28
E27858/c
LOCUS
DEFINITION E27858 Method for testing resistance of rice against Nilaparvata lugens
Stal, DNA fragment and PCR marker.

ACCESSION E27858
VERSION E27858.1 GI:13018283
KEYWORDS JP 1999206376-A/9.
SOURCE unidentified
ORGANISM unidentified
unclassified.

REFERENCE 1 (bases 1 to 10)
AUTHORS Takamichi,T., Hitoshi,N., Takako,T. and Norikuni,S.
TITLE Method for testing resistance of rice against Nilaparvata lugens
JOURNAL Stal, DNA fragment and PCR marker
Patent: JP 1999206376-A 9 03-AUG-1999;
AICHI PREF

COMMENT OS Unidentified
PN JP 1999206376-A/9
PD 03-AUG-1999
PF 22-JAN-1998 JP 1998010845
PR
PI TAKAMICHI TOYAMA,HITOSHI NAKAMAE,TAKAKO TSUJI,NORIKUNI SAKA PC
C12N15/09,C12Q1/68,G01N33/50//C12N15/09,C12R1/91,C12N15/00,PC
(C12N15/00,C12R1/91)
CC

FT Key Location/Qualifiers
FT source 1. .10
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

FEATURES
source
1. .10
Location/Qualifiers
1. .10
/organism="unidentified"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCAG 10
| | | | |
Db 10 GTCTCCAG 3

RESULT 29
E39559
LOCUS
DEFINITION

LOCUS E39559
DEFINITION Genes with human dendritic cell expression.
ACCESSION E39559
VERSION E39559.1 GI:18621650
KEYWORDS JP 2000279181-A/92.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS Hashimoto,S., Matsushima,K. and Suzuki,T.
TITLE Genes with human dendritic cell expression
JOURNAL Patent: JP 2000279181-A 92 10-OCT-2000;
SCIENCE & TECH AGENCY
COMMENT OS Homo sapiens (human)
PN JP 2000279181-A/92
PD 10-OCT-2000
PF 01-APR-1999 JP 1999095481
PR
PI SHINICHI HASHIMOTO,KOJI MATSUSHIMA,TAKUJI SUZUKI PC
C12N15/09,C07K14/475,C07K16/18,C12N15/00
CC
FH Key Location/Qualifiers
FT source 1. .10
/organism="Homo sapiens (human)"

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1. .10
Location/Qualifiers
1. .10
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGT 11
| | | | |
Db 3 TCTCCAGT 10

RESULT 30
AR306857/c
LOCUS
DEFINITION AR306857 Sequence 9 from patent US 6551476.
ACCESSION AR306857
VERSION AR306857.1 GI:31697257
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 10)
AUTHORS Scherba,E.S.
TITLE Noble-metal coated inert anode for aluminum production
JOURNAL Patent: US 6551476-A 9 22-APR-2003;
FEATURES Location/Qualifiers
source
1. .10
/organism="unknown"
/mol_type="genomic DNA"

Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCCAGTC 12
| | | | |
Db 9 CTCCAGTC 2

RESULT 31
AX152455
LOCUS
DEFINITION AX152455 Sequence 370 from Patent WO0138577.

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ACCESSION AX152455
VERSION AX152455.1 GI:14534106
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 370 31-MAY-2001;
The Johns Hopkins University (US)
FEATURES
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Location/Qualifiers
1. .10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 4 TCTCCAGT 11
Db 3 TCTCCAGT 10
RESULT 32
AX152820
LOCUS AX152820 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 735 from Patent WO0138577.
ACCESSION AX152820
VERSION AX152820.1 GI:14534471
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 735 31-MAY-2001;
The Johns Hopkins University (US)
FEATURES
source
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1. .10
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/db_xref="taxon:9606"
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 4 TCTCCAGT 11
Db 3 TCTCCAGT 10
RESULT 33
AX301623
LOCUS AX301623 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 337 from Patent WO0185941.
ACCESSION AX301623
VERSION AX301623.1 GI:17382706
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE Myc targets
JOURNAL Patent: WO 0185941-A 374 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES
source
Location/Qualifiers
1. .10
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 4 TCTCCAGT 11
Db 3 TCTCCAGT 10
RESULT 34
AX301660
LOCUS AX301660 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 374 from Patent WO0185941.
ACCESSION AX301660
VERSION AX301660.1 GI:17382743
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE Myc targets
JOURNAL Patent: WO 0185941-A 374 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES
source
Location/Qualifiers
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
Query Match 40.0%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 4 TCTCCAGT 11
Db 3 TCTCCAGT 10
RESULT 35
CS133813
LOCUS CS133813 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 355 from Patent WO2005058479.
ACCESSION CS133813
VERSION CS133813.1 GI:71793362
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 355 30-JUN-2005;
Praeclis Pharmaceuticals Inc. (US)
FEATURES
source
Location/Qualifiers
1. .9
/organism="synthetic construct"
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/notes="synthetic construct"

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Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 TCTCTTCGT 19
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Db 1 TCTCTTCGT 9

RESULT 36
CS133814/c
LOCUS CS133814 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 356 from Patent WO2005058479.
ACCESSION CS133814
VERSION CS133814.1 GI:71793363
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 356 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
FEATURES Location/Qualifiers
source 1..9
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCTCTTC 17
||| |||
Db 9 AGTCTCTTC 1

RESULT 37
CS133839
LOCUS CS133839 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 381 from Patent WO2005058479.
ACCESSION CS133839
VERSION CS133839.1 GI:71793388
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 381 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
FEATURES Location/Qualifiers
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/db_xref="taxon:32630"
/note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 7 CCAGTCTCT 15
||| |||
Db 1 CCAGTCTCT 9

RESULT 38
CS133878
LOCUS CS133878 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 420 from Patent WO2005058479.
ACCESSION CS133878
VERSION CS133878.1 GI:71793427
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 420 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
FEATURES Location/Qualifiers
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 5 CTCCTGCTCT 13
||| |||
Db 1 CTCCTGCTCT 9

RESULT 39
CS133889
LOCUS CS133889 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 431 from Patent WO2005058479.
ACCESSION CS133889
VERSION CS133889.1 GI:71793438
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 431 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
FEATURES Location/Qualifiers
source 1..9
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 11 TCTCTTCGT 19
||| |||
Db 1 TCTCTTCGT 9

RESULT 40
CS133890/c
LOCUS CS133890 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 432 from Patent WO2005058479.
ACCESSION CS133890
VERSION CS133890.1 GI:71793439
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries

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JOURNAL Patent: WO 2005058479-A 432 30-JUN-2005;
FEATURES Praecis Pharmaceuticals Inc. (US)
source 1. .9
/organism="synthetic construct"
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/db_xref="taxon:32630"
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Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17
Db 9 AGTCGCTTC 1

RESULT 41
CS133996/c
LOCUS CS133996 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 538 from Patent WO2005058479.
ACCESSION CS133996
VERSION CS133996.1 GI:71793545
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 538 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
LOCATION/Qualifiers
FEATURES 1. .9
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/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="synthetic construct"

Query Match 37.0%; Score 7.4; DB 1; Length 9;
Best Local Similarity 88.9%; Pred. No. 87;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 10 GTCTCTTCG 18
Db 9 GTCTCTTCG 1

RESULT 42
CQ787902
LOCUS CQ787902 8 bp DNA linear PAT 24-MAR-2004
DEFINITION Sequence 208 from Patent WO2004020664.
ACCESSION CQ787902
VERSION CQ787902.1 GI:45722860
KEYWORDS .
SOURCE Bos taurus (cow)
ORGANISM Bos taurus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
Pecora; Bovidae; Bovinae; Bos.
REFERENCE 1
AUTHORS Geldermann,H., Preuss,S. and Han,Y.
TITLE Polymorphic microsatellite loci in genes for pre-diagnostic
purposes
JOURNAL Patent: WO 2004020664-A 208 11-MAR-2004;
Universitaet Hohenheim (DE)
LOCATION/Qualifiers
FEATURES 1. .8
source /organism="Bos taurus"
/mol_type="unassigned DNA"
/db_xref="taxon:9913"
satellite 1. .8

/note="R16, Allel H"
repeat_unit 1
/note="Anzahl der Wiederholungen: 4"
repeat_unit 3
/note="Anzahl der Wiederholungen: 13"
repeat_unit 5
/note="Anzahl der Wiederholungen: 3"
repeat_unit 8
/note="Anzahl der Wiederholungen: 4"

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 98;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCTCC 8
Db 1 TGTCTCC 7

RESULT 43
AX687122
LOCUS AX687122 8 bp DNA linear PAT 31-MAR-2003
DEFINITION Sequence 43 from Patent WO03008638.
ACCESSION AX687122
VERSION AX687122.1 GI:29409617
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Schweitzer,M., Anderson,R., Fiechtner,M., Mueller-Ibeler,J.,
Raddatz,S., Bruecher,C., Windhab,N., Orwick,J., Schneider,E.,
Pignot,M. and Kienle,S.
TITLE Sorting and immobilization system for nucleic acids using synthetic
binding systems
JOURNAL Patent: WO 03008638-A 43 30-JAN-2003;
Nanogen Recognomics GmbH (DE)
LOCATION/Qualifiers
FEATURES 1. .8
source /organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"
/note="Synthetic binding system"

misc_feature 1. .8
/note="pyranosyl RNA"

Query Match 35.0%; Score 7; DB 1; Length 8;
Best Local Similarity 100.0%; Pred. No. 98;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 7 CCAGTCT 13
Db 1 CCAGTCT 7

RESULT 44
AX687123/c
LOCUS AX687123 8 bp DNA linear PAT 31-MAR-2003
DEFINITION Sequence 44 from Patent WO03008638.
ACCESSION AX687123
VERSION AX687123.1 GI:29409618
KEYWORDS .
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.
REFERENCE 1
AUTHORS Schweitzer,M., Anderson,R., Fiechtner,M., Mueller-Ibeler,J.,
Raddatz,S., Bruecher,C., Windhab,N., Orwick,J., Schneider,E.,
Pignot,M. and Kienle,S.
TITLE Sorting and immobilization system for nucleic acids using synthetic
binding systems
JOURNAL Patent: WO 03008638-A 44 30-JAN-2003;
Nanogen Recognomics GmbH (DE)

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FEATURES
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    /note="Synthetic binding system"
  misc_feature
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    /note="pyranosyl RNA"

Query Match
Best Local Similarity 35.0%; Score 7; DB 1; Length 8;
Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 7 CCACTCT 13
Db 8 CCACTCT 2

RESULT 45
CS133878/c
LOCUS CS133878 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 420 from Patent WO2005058479.
ACCESSION CS133878
VERSION CS133878.1 GI:71793427
KEYWORDS
SOURCE
  synthetic construct
  other sequences; artificial sequences.
REFERENCE
  1
  AUTHORS Morgan,B.
  TITLE Methods for synthesis of encoded libraries
  JOURNAL Patent: WO 2005058479-A 420 30-JUN-2005;
  Praeclis Pharmaceuticals Inc. (US)
FEATURES
  Location/Qualifiers
  1..9
  /organism="synthetic construct"
  /mol_type="unassigned DNA"
  /db_xref="taxon:32630"
  /note="synthetic construct"

Query Match
Best Local Similarity 25.0%; Score 5; DB 1; Length 9;
Matches 5; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 9 AGTCT 13
Db 9 AGTCT 5

RESULT 46
CQ835687
LOCUS CQ835687 11 bp DNA linear PAT 29-JUL-2004
DEFINITION Sequence 745 from Patent WO2004059001.
ACCESSION CQ835687
VERSION CQ835687.1 GI:50835221
KEYWORDS
SOURCE
  Homo sapiens (human)
  Homo sapiens
  Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
  Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
  Hominiidae; Homo.
REFERENCE
  1
  AUTHORS Petersohn,D., Schlottmann,K., Gassenmeier,T., Holtkoetter,O.,
  Conradt,M. and Hofmann,K.
  TITLE Method for determining markers of human facial skin
  JOURNAL Patent: WO 2004059001-A 745 15-JUL-2004;
  Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
  Location/Qualifiers
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  /organism="Homo sapiens"
  /mol_type="unassigned DNA"
  /db_xref="taxon:9606"

Query Match
Best Local Similarity 24.0%; Score 4.8; DB 1; Length 11;
Matches 6; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 5 CTCACATC 12
Db 2 CTCACAGAC 9

RESULT 47
CS133839/c
LOCUS CS133839 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 381 from Patent WO2005058479.
ACCESSION CS133839
VERSION CS133839.1 GI:71793388
KEYWORDS
SOURCE
  synthetic construct
  other sequences; artificial sequences.
REFERENCE
  1
  AUTHORS Morgan,B.
  TITLE Methods for synthesis of encoded libraries
  JOURNAL Patent: WO 2005058479-A 381 30-JUN-2005;
  Praeclis Pharmaceuticals Inc. (US)
FEATURES
  Location/Qualifiers
  1..9
  /organism="synthetic construct"
  /mol_type="unassigned DNA"
  /db_xref="taxon:32630"
  /note="synthetic construct"

Query Match
Best Local Similarity 22.0%; Score 4.4; DB 1; Length 9;
Matches 5; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 8 CAGTCT 13
Db 8 CAGACT 3

RESULT 48
CS101372/c
LOCUS CS101372 10 bp DNA linear PAT 10-JUN-2005
DEFINITION Sequence 21 from Patent WO2005045021.
ACCESSION CS101372
VERSION CS101372.1 GI:67509818
KEYWORDS
SOURCE
  synthetic construct
  other sequences; artificial sequences.
REFERENCE
  1
  AUTHORS Desire,L.
  TITLE Bace455, an alternative splice variant of the human beta-secretase
  JOURNAL Patent: WO 2005045021-A 21 19-MAY-2005;
  Exonhit Therapeutics S.A. (FR)
FEATURES
  Location/Qualifiers
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  /mol_type="unassigned DNA"
  /db_xref="taxon:32630"
  /note="primer"

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Best Local Similarity 21.0%; Score 4.2; DB 1; Length 10;
Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 7 CCACTCTCT 15
Db 10 CCAGAGACT 2

RESULT 49
E27858
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LOCUS E27858 10 bp DNA linear PAT 18-JUN-2001
 DEFINITION Method for testing resistance of rice against Nilaparvata lugens
 Scal, DNA fragment and PCR marker.
 ACCESSION E27858
 VERSION E27858.1 GI:13018283
 KEYWORDS JP 1999206376-A/9.
 SOURCE unidentified
 ORGANISM unidentified
 unclassified.
 REFERENCE 1 (bases 1 to 10)
 AUTHORS Takamichi,T., Hitoshi,N., Takako,T. and Norikuni,S.
 TITLE Method for testing resistance of rice against Nilaparvata lugens
 JOURNAL Scal, DNA fragment and PCR marker
 Patent: JP 1999206376-A 9 03-AUG-1999;
 AICHI PREF
 COMMENT OS Unidentified
 PN JP 1999206376-A/9
 PD 03-AUG-1999
 PF 22-JAN-1998 JP 1998010845
 PR TAKAMICHI TOYAMA,HITOSHI NAKAMAE,TAKAKO TSUII,NORIKUNI SAKA PC
 C12N15/09,C12Q1/68,G01N33/50//(C12N15/09,C12R1.91),C12N15/00, PC
 (C12N15/00,C12R1.91)
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 FT source 1..10
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 /db_xref='taxon:32644'
 Query Match 21.0%; Score 4.2; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 53;
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 4 TCTCCAGTC 12
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 Db 2 TCTGGAGAC 10
 RESULT 50
 AR306857
 LOCUS AR306857 10 bp DNA linear PAT 12-JUN-2003
 DEFINITION Sequence 9 from patent US 6551476.
 ACCESSION AR306857
 VERSION AR306857.1 GI:31697257
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 10)
 AUTHORS Scherba,E.S.
 TITLE Noble-metal coated inert anode for aluminum production
 JOURNAL Patent: US 6551476-A 9 22-APR-2003;
 FEATURES
 source Location/Qualifiers
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 /organism='unknown'
 /mol_type='genomic DNA'
 Query Match 21.0%; Score 4.2; DB 1; Length 10;
 Best Local Similarity 66.7%; Pred. No. 53;
 Matches 6; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
 Qy 3 GTCTCCAGT 11
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 Db 2 GACTGGAGT 10
 RESULT 51
 AX629950/c
 LOCUS AX629950 11 bp DNA linear PAT 21-FEB-2003

DEFINITION Sequence 6991 from Patent WO02053774.
 ACCESSION AX629950
 VERSION AX629950.1 GI:28457988
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 REFERENCE 1
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
 TITLE Method for determining homeostasis of the skin
 JOURNAL Patent: WO 02053774-A 6991 11-JUL-2002;
 Henkel Kommanditgesellschaft auf Aktien (DE)
 FEATURES
 source Location/Qualifiers
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 /organism='Homo sapiens'
 /mol_type='unassigned DNA'
 /db_xref='taxon:9606'
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 Best Local Similarity 100.0%; Pred. No. 50;
 Matches 4; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 8 CACT 11
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 Db 4 CAGT 1
 RESULT 52
 A04820
 LOCUS A04820 Nucleotide sequence 8 from patent number EP0143081.
 DEFINITION A04820 10 bp DNA linear PAT 14-JUL-1993
 ACCESSION A04820
 VERSION A04820.1 GI:411098
 KEYWORDS
 SOURCE synthetic construct
 ORGANISM synthetic construct
 other sequences; artificial sequences.
 REFERENCE 1 (bases 1 to 10)
 AUTHORS Meyhack,B. and Hinnen,A.
 TITLE Synthesis of tissue plasminogen activator(TPA) by yeast
 JOURNAL Patent: EP 0143081-A 8 29-MAY-1985;
 CIBA-GEIGY AG
 FEATURES
 source Location/Qualifiers
 1..10
 /organism='synthetic construct'
 /mol_type='unassigned DNA'
 /db_xref='taxon:32630'
 Query Match 19.0%; Score 3.8; DB 1; Length 10;
 Best Local Similarity 71.4%; Pred. No. 57;
 Matches 5; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 9 AGTCTCT 15
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 Db 3 AGACACT 9
 RESULT 53
 AX626980/c
 LOCUS AX626980 11 bp DNA linear PAT 21-FEB-2003
 DEFINITION Sequence 4021 from Patent WO02053774.
 ACCESSION AX626980
 VERSION AX626980.1 GI:28455018
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
 Homnidae; Homo.
 REFERENCE 1
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.

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TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 4021 11-JUL-2002;
           Henkel Kommanditgesellschaft auf Aktien (DE)
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  source    1. .11
            /organism="Homo sapiens"
            /mol_type="unassigned DNA"
            /db_xref="taxon:9606"

Query Match      18.0%; Score 3.6; DB 1; Length 11;
Best Local Similarity 60.0%; Pred. No. 54;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 5 CTCCAGTCTC 14
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Db 11 CTGGAGACAC 2

RESULT 54
LOCUS      AX687122/c
DEFINITION Sequence 43 from Patent WO03008638.
ACCESSION  AX687122
VERSION     AX687122.1 GI:29409617
KEYWORDS
SOURCE      .
ORGANISM    synthetic construct
            synthetic construct
            other sequences; artificial sequences.
REFERENCE 1
AUTHORS     Schweitzer,M., Anderson,R., Fiechtner,M., Mueller-Ibelser,J.,
            Raddatz,S., Bruecher,C., Windhab,N., Orwick,J., Schneider,E.,
            Pignot,M. and Kienle,S.
TITLE       Sorting and immobilization system for nucleic acids using synthetic
            binding systems
JOURNAL     Patent: WO 03008638-A 43 30-JAN-2003;
            Nanogen Recognomics GmbH (DE)
FEATURES
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            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="Synthetic binding system"
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            /note="pyranosyl RNA"

Query Match      17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 98;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
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Db 7 AGACT 3

RESULT 55
LOCUS      AX687123
DEFINITION Sequence 44 from Patent WO03008638.
ACCESSION  AX687123
VERSION     AX687123.1 GI:29409618
KEYWORDS
SOURCE      .
ORGANISM    synthetic construct
            synthetic construct
            other sequences; artificial sequences.
REFERENCE 1
AUTHORS     Schweitzer,M., Anderson,R., Fiechtner,M., Mueller-Ibelser,J.,
            Raddatz,S., Bruecher,C., Windhab,N., Orwick,J., Schneider,E.,
            Pignot,M. and Kienle,S.
TITLE       Sorting and immobilization system for nucleic acids using synthetic
            binding systems
JOURNAL     Patent: WO 03008638-A 44 30-JAN-2003;
            Nanogen Recognomics GmbH (DE)
FEATURES
  source    1. .8
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            /db_xref="taxon:32630"
            /note="Synthetic binding system"
  misc_feature 1. .8
            /note="pyranosyl RNA"

Query Match      17.0%; Score 3.4; DB 1; Length 9;
Best Local Similarity 80.0%; Pred. No. 87;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    |||||
Db 5 AGACT 9

RESULT 57
LOCUS      BD161349
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION  BD161349
VERSION     BD161349.1 GI:27867107
KEYWORDS    JP 2002186482-A/171.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homnidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS     Nagai,S., Matsushima,K. and Hashimoto,S.
TITLE       Human activated Th1 and Th2 cell expression genes
JOURNAL     Patent: JP 2002186482-A 171 02-JUL-2002;
            JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT      OS Homo sapiens (human)
            PN JP 2002186482-A/171
            PD 02-JUL-2002
            PF 19-DEC-2000 JP 2000385816
            PI SHIGENORI NAGAI KOJI MATSUSHIMA SHINICHI HASHIMOTO PC
            C12N15/09,C07K14/47,C07K16/18,C12P21/08,C12N15/00 CC Human
            activated Th1 and Th2 cell expression genes FH Key
            Location/Qualifiers

source      1. .8
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            /db_xref="taxon:32630"
            /note="Synthetic binding system"
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            /note="pyranosyl RNA"

Query Match      17.0%; Score 3.4; DB 1; Length 8;
Best Local Similarity 80.0%; Pred. No. 98;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 5 CTCCAGTCTC 14
    |||||
Db 11 CTGGAGACAC 2

RESULT 54
LOCUS      AX687122/c
DEFINITION Sequence 43 from Patent WO03008638.
ACCESSION  AX687122
VERSION     AX687122.1 GI:29409617
KEYWORDS
SOURCE      .
ORGANISM    synthetic construct
            synthetic construct
            other sequences; artificial sequences.
REFERENCE 1
AUTHORS     Schweitzer,M., Anderson,R., Fiechtner,M., Mueller-Ibelser,J.,
            Raddatz,S., Bruecher,C., Windhab,N., Orwick,J., Schneider,E.,
            Pignot,M. and Kienle,S.
TITLE       Sorting and immobilization system for nucleic acids using synthetic
            binding systems
JOURNAL     Patent: WO 03008638-A 43 30-JAN-2003;
            Nanogen Recognomics GmbH (DE)
FEATURES
  source    1. .8
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            /mol_type="genomic DNA"
            /db_xref="taxon:32630"
            /note="Synthetic binding system"
  misc_feature 1. .8
            /note="pyranosyl RNA"

Query Match      17.0%; Score 3.4; DB 1; Length 9;
Best Local Similarity 80.0%; Pred. No. 87;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    |||||
Db 5 AGACT 9

RESULT 57
LOCUS      BD161349
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION  BD161349
VERSION     BD161349.1 GI:27867107
KEYWORDS    JP 2002186482-A/171.
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homnidae; Homo.
REFERENCE 1 (bases 1 to 10)
AUTHORS     Nagai,S., Matsushima,K. and Hashimoto,S.
TITLE       Human activated Th1 and Th2 cell expression genes
JOURNAL     Patent: JP 2002186482-A 171 02-JUL-2002;
            JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT      OS Homo sapiens (human)
            PN JP 2002186482-A/171
            PD 02-JUL-2002
            PF 19-DEC-2000 JP 2000385816
            PI SHIGENORI NAGAI KOJI MATSUSHIMA SHINICHI HASHIMOTO PC
            C12N15/09,C07K14/47,C07K16/18,C12P21/08,C12N15/00 CC Human
            activated Th1 and Th2 cell expression genes FH Key
            Location/Qualifiers

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FT Location/Qualifiers
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/organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'

Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 61;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 1 AGACT 5

RESULT 58
AX152820/c
LOCUS AX152820 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 735 from Patent WO0138577.
ACCESSION AX152820
VERSION AX152820.1 GI:14534471
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE Human transcriptomes
JOURNAL Patent: WO 0138577-A 735 31-MAY-2001;
The Johns Hopkins University (US)
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/organism='Homo sapiens'
/mol_type='unassigned DNA'
/db_xref='taxon:9606'

Query Match 17.0%; Score 3.4; DB 1; Length 10;
Best Local Similarity 80.0%; Pred. No. 61;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 1 AGACT 5

RESULT 59
AX301623/c
LOCUS AX301623 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 337 from Patent WO0185941.
ACCESSION AX301623
VERSION AX301623.1 GI:17382706
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Versteeg,R. and Caron,H.N.
TITLE MYC targets
JOURNAL Patent: WO 0185941-A 337 15-NOV-2001;
Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES
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/mol_type='unassigned DNA'
/db_xref='taxon:9606'

Query Match 17.0%; Score 3.4; DB 1; Length 10;

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Best Local Similarity 80.0%; Pred. No. 61;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 6 AGACT 2

RESULT 60
AX624946
LOCUS AX624946 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 1987 from Patent WO02053774.
ACCESSION AX624946
VERSION AX624946.1 GI:28452887
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 1987 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Best Local Similarity 80.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 5 AGGCT 9

RESULT 61
AX632367
LOCUS AX632367 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 9409 from Patent WO02053774.
ACCESSION AX632367
VERSION AX632367.1 GI:28467982
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 9409 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
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Query Match 17.0%; Score 3.4; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 5 AGGCT 9

RESULT 62

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AX471575
LOCUS AX471575 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 1152 from Patent WO02053773.
ACCESSION AX471575
VERSION AX471575.1 GI:22206700
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE 1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 1152 11-JUL-2002;
HENKEL KGAA (DE)

FEATURES
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Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
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Query Match 17.0%; Score 3.4; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13
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Db 6 AGACT 10

RESULT 63
AX626145
LOCUS AX626145 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 3186 from Patent WO02053774.
ACCESSION AX626145
VERSION AX626145.1 GI:28454183
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE 1
AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 3186 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)

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Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 17.0%; Score 3.4; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 56;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13
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Db 6 AGACT 10

RESULT 64
CQ624604
LOCUS CQ624604 17 bp DNA linear PAT 02-FEB-2004
DEFINITION Sequence 9344 from Patent WO0192524.
ACCESSION CQ624604
VERSION CQ624604.1 GI:41674822
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE 1
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 9344 06-DEC-2001;
Aeomica, Inc. (US)

FEATURES
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Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13
|||
Db 8 AGGCT 12

RESULT 65
CQ624605
LOCUS CQ624605 17 bp DNA linear PAT 02-FEB-2004
DEFINITION Sequence 9345 from Patent WO0192524.
ACCESSION CQ624605
VERSION CQ624605.1 GI:41674823
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE 1
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 9345 06-DEC-2001;
Aeomica, Inc. (US)

FEATURES
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Location/Qualifiers
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/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 9 AGTCT 13
|||
Db 7 AGGCT 11

RESULT 66
CQ624606
LOCUS CQ624606 17 bp DNA linear PAT 02-FEB-2004
DEFINITION Sequence 9346 from Patent WO0192524.
ACCESSION CQ624606
VERSION CQ624606.1 GI:41674824
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.

REFERENCE 1
AUTHORS Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and Shannon,M.E.
TITLE Myosin-like gene expressed in human heart and muscle
JOURNAL Patent: WO 0192524-A 9346 06-DEC-2001;

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    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    ||||
Db 6 AGGCT 10

RESULT 67
LOCUS               AR465667               17 bp DNA linear PAT 20-FEB-2004
DEFINITION          Sequence 9344 from patent US 6686188.
ACCESSION            AR465667
VERSION              AR465667.1 GI:42700724
KEYWORDS
SOURCE               Unknown.
ORGANISM             Unclassified.
REFERENCE            1 (bases 1 to 17)
AUTHORS              Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
                    Shannon,M.E.
TITLE                Polynucleotide encoding a human myosin-like polypeptide expressed
                    predominantly in heart and muscle
JOURNAL              Patent: US 6686188-A 9344 03-FEB-2004;
                    Amersham PLC; Buckinghamshire;
                    GBX;
FEATURES             Location/Qualifiers
                    source
                    1..17
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                    /mol_type="genomic DNA"

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    ||||
Db 8 AGGCT 12

RESULT 68
LOCUS               AR465668               17 bp DNA linear PAT 20-FEB-2004
DEFINITION          Sequence 9345 from patent US 6686188.
ACCESSION            AR465668
VERSION              AR465668.1 GI:42700725
KEYWORDS
SOURCE               Unknown.
ORGANISM             Unclassified.
REFERENCE            1 (bases 1 to 17)
AUTHORS              Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
                    Shannon,M.E.
TITLE                Polynucleotide encoding a human myosin-like polypeptide expressed
                    predominantly in heart and muscle
JOURNAL              Patent: US 6686188-A 9345 03-FEB-2004;
                    Amersham PLC; Buckinghamshire;
                    GBX;
FEATURES             Location/Qualifiers
                    source
                    1..17
                    /organism="unknown"
                    /mol_type="genomic DNA"

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    ||||
Db 6 AGGCT 10

RESULT 69
LOCUS               AR465669               17 bp DNA linear PAT 20-FEB-2004
DEFINITION          Sequence 9346 from patent US 6686188.
ACCESSION            AR465669
VERSION              AR465669.1 GI:42700726
KEYWORDS
SOURCE               Unknown.
ORGANISM             Unclassified.
REFERENCE            1 (bases 1 to 17)
AUTHORS              Gu,Y., Ji,Y., Penn,S.G., Hanzel,D.K., Rank,D.R., Chen,W. and
                    Shannon,M.E.
TITLE                Polynucleotide encoding a human myosin-like polypeptide expressed
                    predominantly in heart and muscle
JOURNAL              Patent: US 6686188-A 9346 03-FEB-2004;
                    Amersham PLC; Buckinghamshire;
                    GBX;
FEATURES             Location/Qualifiers
                    source
                    1..17
                    /organism="unknown"
                    /mol_type="genomic DNA"

Query Match          17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 36;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
    ||||
Db 6 AGGCT 10

RESULT 70
LOCUS               BD239234               10 bp DNA linear PAT 17-JUL-2003
DEFINITION          Preparation and use of superior vaccines.
ACCESSION            BD239234
VERSION              BD239234.1 GI:33049004
KEYWORDS              JP 2002534056-A/652.
SOURCE               Homo sapiens (human)
ORGANISM             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                    Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
                    Hominiidae; Homo.
REFERENCE            1 (bases 1 to 10)
AUTHORS              Roberts,B.L. and Shankara,S.
TITLE                Preparation and use of superior vaccines
JOURNAL              Patent: JP 2002534056-A 652 15-OCT-2002;
                    GENZYME CORP
COMMENT              OS Homo sapiens (human)
                    PN JP 2002534056-A/652
                    PD 15-OCT-2002
                    PF 18-JUN-1999 JP 2000554749
                    PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
                    19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
                    19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
                    19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
                    19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR
                    19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
                    19-JUN-1998 US 60/090000,19-JUN-1998 US 60/090048 PR
                    19-JUN-1998 US 60/089999,19-JUN-1998 US 60/090043 PR
                    19-JUN-1998 US 60/090042,19-JUN-1998 US 60/090036 PR
                    19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
                    19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089833 PR
                    19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
                    19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR

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19-JUN-1998 US      60/090076,19-JUN-1998 US      60/090045 PR
08-DEC-1998 US      60/111715
PI    BRUCE L ROBERTS,SRINIVAS SHANKARA
PC    C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
      C12N1/19, C12N5/10, G01N33/15, G01N33/50, G01N33/53, G01N33/566, PC
      G01N37/00,
PC    C12N15/00,C12N5/00,C12N15/00
CC    Preparation and use of superior vaccines
FH    Key      Location/Qualifiers
FT    source    1..10
           /organism='Homo sapiens (human)'.
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source
1..10
/organism='Homo sapiens'
/mol_type='genomic DNA'
/db_xref='taxon:9606'

Query Match      16.0%; Score 3.2; DB 1; Length 10;
Best Local Similarity 62.5%; Pred. No. 63;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12
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Db 2 CTGGAGCC 9

RESULT 71
AX623703
LOCUS      AX623703      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 744 from Patent WO02053774.
ACCESSION  AX623703
VERSION     AX623703.1 GI:28451644
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homnidae; Homo.
REFERENCE   1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 744 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
1..11
/organism='Homo sapiens'
/mol_type='unassigned DNA'
/db_xref='taxon:9606'

Query Match      16.0%; Score 3.2; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 58;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12
   |||||
Db 3 CTGGAGAC 10

RESULT 72
AX631124
LOCUS      AX631124      11 bp      DNA      linear      PAT 21-FEB-2003
DEFINITION Sequence 8165 from Patent WO02053774.
ACCESSION  AX631124
VERSION     AX631124.1 GI:28459168
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Homo sapiens
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
            Homnidae; Homo.
REFERENCE   1
AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.

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TITLE      Method for determining homeostasis of the skin
JOURNAL    Patent: WO 02053774-A 8165 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source
1..11
/organism='Homo sapiens'
/mol_type='unassigned DNA'
/db_xref='taxon:9606'

Query Match      16.0%; Score 3.2; DB 1; Length 11;
Best Local Similarity 62.5%; Pred. No. 58;
Matches 5; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 5 CTCGAGTC 12
   |||||
Db 3 CTGGAGAC 10

RESULT 73
I86909/c
LOCUS      I86909      10 bp      DNA      linear      PAT 10-JUN-1998
DEFINITION Sequence 9 from patent US 5702926.
ACCESSION  I86909
VERSION     I86909.1 GI:3206627
KEYWORDS
SOURCE      Unknown.
ORGANISM    Unclassified.
REFERENCE   1 (bases 1 to 10)
AUTHORS    Fraiser,M.S. and Walker,G.Terrance.
TITLE      Nicking of DNA using boronated nucleotides
JOURNAL    Patent: US 5702926-A 9 30-DEC-1997;
            Location/Qualifiers
FEATURES
source
1..10
/organism='unknown'
/mol_type='unassigned DNA'

Query Match      15.0%; Score 3; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 65;
Matches 3; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTG 3
   |||
Db 8 TTG 6

RESULT 74
BD065278/c
LOCUS      BD065278      10 bp      DNA      linear      PAT 27-AUG-2002
DEFINITION Characterization of the yeast transcriptome.
ACCESSION  BD065278
VERSION     BD065278.1 GI:22610881
KEYWORDS    JP 2001509017-A/214.
SOURCE      Saccharomyces cerevisiae (baker's yeast)
ORGANISM    Saccharomyces cerevisiae
            Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
            Saccharomycetales; Saccharomycetaceae; Saccharomyces.
REFERENCE   1 (bases 1 to 10)
AUTHORS    Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE      Characterization of the yeast transcriptome
JOURNAL    Patent: JP 2001509017-A 214 10-JUL-2001;
            THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
COMMENT     OS Saccharomyces cerevisiae (yeast)
            PN JP 2001509017-A/214
            PD 10-JUL-2001
            PF 22-JAN-1998 JP 1998532117
            PR 23-JAN-1997 US 60/035917
            PI VICTOR E VELCULESCU, BERT VOGELSTEIN, KENNETH W KINZLER PC
            C12N15/10, C12N15/31, C07K14/395, C12Q1/68, C12Q1/02 CC
            Characterization of the yeast transcriptome
            FH Key      Location/Qualifiers
            FT source    1..10
            /organism='Saccharomyces cerevisiae (yeast)'.

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FEATURES
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    Location/Qualifiers
      1..10
      /organism="Saccharomyces cerevisiae"
      /mol_type="genomic DNA"
      /db_xref="taxon:4932"

Query Match
  Best Local Similarity 14.0%; Score 2.8; DB 1; Length 10;
  Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 7 CTGGAG 2

RESULT 75
BD161225/c
LOCUS BD161225 10 bp DNA linear PAT 17-JAN-2003
DEFINITION Human activated Th1 and Th2 cell expression genes.
ACCESSION BD161225
VERSION BD161225.1 GI:27866983
KEYWORDS JP 2002186482-A/47.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
  1 (bases 1 to 10)
  Nagai,S., Matsushima,K. and Hashimoto,S.
  Human activated Th1 and Th2 cell expression genes
  JOURNAL Patent: JP 2002186482-A 47 02-JUL-2002;
  JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT OS Homo sapiens (human)
PN JP 2002186482-A/47
PD 02-JUL-2002
PF 19-DEC-2000 JP 2000395816
PI SHIGENORI NAGAI,KOJI MATSUSHIMA,SHINICHI HASHIMOTO PC
C12N15/09,C07K14/47,C07K16/18,C12P21/08,C12N15/00 CC Human
activated Th1 and Th2 cell expression genes FH Key
Location/Qualifiers
  FT source
  FT Location/Qualifiers
    1..10
    /organism="Homo sapiens (human)".

FEATURES
  source
    Location/Qualifiers
      1..10
      /organism="Homo sapiens"
      /mol_type="genomic DNA"
      /db_xref="taxon:9606"

Query Match
  Best Local Similarity 14.0%; Score 2.8; DB 1; Length 10;
  Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 9 CTGGAG 4

RESULT 76
E39559/c
LOCUS E39559 10 bp DNA linear PAT 31-JAN-2002
DEFINITION Genes with human dendritic cell expression.
ACCESSION E39559
VERSION E39559.1 GI:18621650
KEYWORDS JP 2000279181-A/92.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
  1 (bases 1 to 10)
  Hashimoto,S., Matsushima,K. and Suzuki,T.
  Genes with human dendritic cell expression
  JOURNAL Patent: JP 2000279181-A 92 10-OCT-2000;

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SCIENCE & TECH AGENCY
OS Homo sapiens (human)
PN JP 2000279181-A/92
PD 10-OCT-2000
PF 01-APR-1999 JP 1999095481
PR SHINICHI HASHIMOTO,KOJI MATSUSHIMA,TAKUJI SUZUKI PC
C12N15/09,C07K14/47S,C07K16/18,C12N15/00
CC
FH Key Location/Qualifiers
  1..10
  FT source
  FT Location/Qualifiers
    1..10
    /organism="Homo sapiens (human)".

FEATURES
  source
    Location/Qualifiers
      1..10
      /organism="Homo sapiens"
      /mol_type="genomic DNA"
      /db_xref="taxon:9606"

Query Match
  Best Local Similarity 14.0%; Score 2.8; DB 1; Length 10;
  Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 9 CTGGAG 4

RESULT 77
AX152455/c
LOCUS AX152455 10 bp DNA linear PAT 22-JUN-2001
DEFINITION Sequence 370 from Patent WO0138577.
ACCESSION AX152455
VERSION AX152455.1 GI:14534106
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
  1
  Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
  Human transcriptomes
  JOURNAL Patent: WO 0138577-A 370 31-MAY-2001;
  The Johns Hopkins University (US)
FEATURES
  source
    Location/Qualifiers
      1..10
      /organism="Homo sapiens"
      /mol_type="unassigned DNA"
      /db_xref="taxon:9606"

Query Match
  Best Local Similarity 14.0%; Score 2.8; DB 1; Length 10;
  Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 5 CTCGAG 10
Db 9 CTGGAG 4

RESULT 78
AX301660/c
LOCUS AX301660 10 bp DNA linear PAT 30-NOV-2001
DEFINITION Sequence 374 from Patent WO0185941.
ACCESSION AX301660
VERSION AX301660.1 GI:17382743
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
  1
  Versteeg,R. and Caron,H.N.

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TITLE      Myc targets
JOURNAL    Patent: WO 0185941-A 374 15-NOV-2001;
           Academisch Ziekenhuis bij de Universiteit van Amsterdam (NL)
FEATURES   Location/Qualifiers
           source
             1..10
             /organism="Homo sapiens"
             /mol_type="unassigned DNA"
             /db_xref="taxon:9606"
Query Match      14.0%; Score 2.8; DB 1; Length 10;
Best Local Similarity 66.7%; Pred. No. 67;
Matches 4; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      5 CTCCAG 10
        ||||
Db       9 CTGGAG 4

RESULT 79
CQ787902/c
LOCUS      CQ787902      8 bp      DNA      linear      PAT 24-MAR-2004
DEFINITION Sequence 208 from Patent WO2004020664.
ACCESSION  CQ787902
VERSION     CQ787902.1 GI:45722860
KEYWORDS   .
SOURCE     Bos taurus (cow)
ORGANISM   Bos taurus
           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
           Mammalia; Eutheria; Laurasiatheria; Cetartiodactyla; Ruminantia;
           Pecora; Bovidae; Bovinae; Bos.
REFERENCE  1
AUTHORS   Geldermann,H., Preuss,S. and Han,Y.
TITLE     Polymorphous microsatellite loci in genes for pre-diagnostic
           purposes
JOURNAL   Patent: WO 2004020664-A 208 11-MAR-2004;
           Universitaet Hohenheim (DE)
FEATURES   Location/Qualifiers
           source
             1..8
             /organism="Bos taurus"
             /mol_type="unassigned DNA"
             /db_xref="taxon:9913"
satellite  1..8
repeat_unit 1 /note="R16, Allel H"
repeat_unit 3 /note="Anzahl der Wiederholungen: 4"
repeat_unit 5 /note="Anzahl der Wiederholungen: 13"
repeat_unit 8 /note="Anzahl der Wiederholungen: 3"
repeat_unit 8 /note="Anzahl der Wiederholungen: 4"

Query Match      12.0%; Score 2.4; DB 1; Length 8;
Best Local Similarity 75.0%; Pred. No. 98;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      9 AGTC 12
        ||||
Db       5 AGAC 2

RESULT 80
CS133813/c
LOCUS      CS133813      9 bp      DNA      linear      PAT 02-AUG-2005
DEFINITION Sequence 355 from Patent WO2005058479.
ACCESSION  CS133813
VERSION     CS133813.1 GI:71793362
KEYWORDS   .
SOURCE     synthetic construct
           synthetic construct
           other sequences; artificial sequences.
REFERENCE  1
AUTHORS   Morgan,B.
TITLE     Methods for synthesis of encoded libraries
JOURNAL   Patent: WO 2005058479-A 538 30-JUN-2005;
           Praecis Pharmaceuticals Inc. (US)
FEATURES   Location/Qualifiers
           source
             1..9
             /organism="synthetic construct"
             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"
             /note="synthetic construct"
Query Match      12.0%; Score 2.4; DB 1; Length 9;
Best Local Similarity 75.0%; Pred. No. 87;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 GTCT 6
        ||||
Db       6 GACT 9

RESULT 81
CS133890
LOCUS      CS133890      9 bp      DNA      linear      PAT 02-AUG-2005
DEFINITION Sequence 432 from Patent WO2005058479.
ACCESSION  CS133890
VERSION     CS133890.1 GI:71793439
KEYWORDS   .
SOURCE     synthetic construct
           synthetic construct
           other sequences; artificial sequences.
REFERENCE  1
AUTHORS   Morgan,B.
TITLE     Methods for synthesis of encoded libraries
JOURNAL   Patent: WO 2005058479-A 432 30-JUN-2005;
           Praecis Pharmaceuticals Inc. (US)
FEATURES   Location/Qualifiers
           source
             1..9
             /organism="synthetic construct"
             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"
             /note="synthetic construct"
Query Match      12.0%; Score 2.4; DB 1; Length 9;
Best Local Similarity 75.0%; Pred. No. 87;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 GTCT 6
        ||||
Db       6 GACT 9

RESULT 82
CS133996
LOCUS      CS133996      9 bp      DNA      linear      PAT 02-AUG-2005
DEFINITION Sequence 538 from Patent WO2005058479.
ACCESSION  CS133996
VERSION     CS133996.1 GI:71793545
KEYWORDS   .
SOURCE     synthetic construct
           synthetic construct
           other sequences; artificial sequences.
REFERENCE  1
AUTHORS   Morgan,B.
TITLE     Methods for synthesis of encoded libraries
JOURNAL   Patent: WO 2005058479-A 538 30-JUN-2005;
           Praecis Pharmaceuticals Inc. (US)
FEATURES   Location/Qualifiers
           source
             1..9
             /organism="synthetic construct"
             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"
             /note="synthetic construct"
Query Match      12.0%; Score 2.4; DB 1; Length 9;
Best Local Similarity 75.0%; Pred. No. 87;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      3 GTCT 6
        ||||
Db       6 GACT 9

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Best Local Similarity 75.0%; Pred. No. 87;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 7 CCAG 10
Db 1 CGAG 4

RESULT 83
A11620
LOCUS A11620 10 bp DNA linear PAT 17-NOV-1993
DEFINITION oligonucleotide 'M''.
ACCESSION A11620
VERSION A11620.1 GI:489366
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 (bases 1 to 10)
AUTHORS Ueda,I., Niwa,M., Saito,Y., Sato,S., Ono,H. and Kitaguchi,T.
TITLE 59 Valine insulin-like growth factor I and process for production thereof
JOURNAL Patent: EP 0158892-A 116 23-OCT-1985;
FUJISAWA PHARMACEUTICAL CO., LTD
FEATURES
Location/Qualifiers
source
1..10
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 12.0%; Score 2.4; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 70;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 3 AGAC 6

RESULT 84
A35162
LOCUS A35162 10 bp DNA linear PAT 06-DEC-1996
DEFINITION Synthetic IGF-I gene oligo.
ACCESSION A35162
VERSION A35162.1 GI:1926821
KEYWORDS
SOURCE
ORGANISM
synthetic construct
other sequences; artificial sequences.
REFERENCE
1 (bases 1 to 10)
AUTHORS Ueda,I., Niwa,M., Saitoh,S., Saitoh,Y. and Kusunoki,C.
TITLE Process for production of insulin-like growth factor I and plasmid for production thereof
JOURNAL Patent: EP 0219814-A 112 29-APR-1987;
FUJISAWA PHARMACEUTICAL CO., LTD
FEATURES
Location/Qualifiers
source
1..10
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 12.0%; Score 2.4; DB 1; Length 10;
Best Local Similarity 75.0%; Pred. No. 70;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 3 AGAC 6

RESULT 85
CQ836521
LOCUS CQ836521 11 bp DNA linear PAT 29-JUL-2004

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DEFINITION Sequence 1579 from Patent WO2004059001.
ACCESSION CQ836521
VERSION CQ836521.1 GI:50836055
KEYWORDS
SOURCE
ORGANISM
Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini;
Hominidae; Homo.
REFERENCE
1
AUTHORS Petersohn,D., Schlotmann,K., Gassenmeier,T., Holtkoetter,O.,
Conradt,M. and Hofmann,K.
TITLE Method for determining markers of human facial skin
JOURNAL Patent: WO 2004059001-A 1579 15-JUL-2004;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Location/Qualifiers
source
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/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 11.0%; Score 2.2; DB 1; Length 11;
Best Local Similarity 57.1%; Pred. No. 65;
Matches 4; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 9 AGTCTCT 15
Db 3 AGAAACT 9

RESULT 86
CS133889/c
LOCUS CS133889 9 bp DNA linear PAT 02-AUG-2005
DEFINITION Sequence 431 from Patent WO2005058479.
ACCESSION CS133889
VERSION CS133889.1 GI:71793438
KEYWORDS
SOURCE
ORGANISM
synthetic construct
synthetic construct
other sequences; artificial sequences.
REFERENCE
1
AUTHORS Morgan,B.
TITLE Methods for synthesis of encoded libraries
JOURNAL Patent: WO 2005058479-A 431 30-JUN-2005;
Praecis Pharmaceuticals Inc. (US)
FEATURES
Location/Qualifiers
source
1..9
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/notes="synthetic construct"

Query Match 10.0%; Score 2; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 87;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 17 CG 18
Db 8 CG 7

RESULT 87
AR492617
LOCUS AR492617 10 bp DNA linear PAT 15-MAY-2004
DEFINITION Sequence 43 from patent US 6716974.
ACCESSION AR492617
VERSION AR492617.1 GI:47262128
KEYWORDS
SOURCE
ORGANISM
Unknown.
REFERENCE
1 (bases 1 to 10)
AUTHORS Maciag,T., Zimin,A.B., Small,D.J. and Prudovsky,I.A.

```

TITLE Therapeutic and diagnostic methods and compositions based on
jagged/notch proteins and nucleic acids
JOURNAL Patent: US 6716974-A 43 06-APR-2004;
Maine Medical Center Research Institute; Scarborough, ME
FEATURES
source Location/Qualifiers
1. .10
/organism="unknown"
/mol_type="genomic DNA"

Query Match 10.0%; Score 2; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 72;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AG 10
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Db 2 AG 3

RESULT 88
AX924254
LOCUS AX924254 11 bp DNA linear PAT 18-DEC-2003
DEFINITION Sequence 39 from Patent EP1350841.
ACCESSION AX924254
VERSION AX924254.1 GI:40217178
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
other sequences; artificial sequences.

REFERENCE 1
AUTHORS Schoenbrunner, N.J., Myers, T.W. and Gelfand, D.H.
TITLE Thermostable or thermoactive DNA polymerase with attenuated
3'-5' exonuclease activity
JOURNAL Patent: EP 1350841-A 39 08-OCT-2003;
Roche Diagnostics GmbH (DE); F. HOFFMANN-LA ROCHE AG (CH)
FEATURES
source Location/Qualifiers
1. .11
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"

Query Match 10.0%; Score 2; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 66;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 17 CG 18
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Db 1 CG 2

Search completed: April 23, 2006, 11:37:56
Job time : 0.001 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 23, 2006, 11:47:44 ; Search time 0.001 Seconds
(without alignments)
13.200 Million cell updates/sec

Title: US-10-728-399-1
Perfect score: 20
Sequence: 1 ttgtctccagtccttcggt 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 0.5

Searched: 19 seqs, 330 residues

Total number of hits satisfying chosen parameters: 38

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : rnpbm.subdb.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	19	95.0	20	1	US-10-728-399-3
3	19	95.0	20	1	US-10-728-399-4
4	18	90.0	20	1	US-10-728-399-2
5	18	90.0	20	1	US-10-728-399-10
6	17	85.0	20	1	US-10-728-399-7
7	17	85.0	20	1	US-10-728-399-18
8	16	80.0	20	1	US-10-728-399-5
9	16	80.0	20	1	US-10-728-399-24
10	13.8	69.0	17	1	US-09-866-108-9344
11	13.8	69.0	17	1	US-09-866-108-9345
12	13.8	69.0	17	1	US-09-866-108-9346
13	13.8	69.0	17	1	US-10-723-361-9344
14	13.8	69.0	17	1	US-10-723-361-9345
15	13.8	69.0	17	1	US-10-723-361-9346
16	10.4	52.0	13	1	US-10-257-017B-103673
17	10.4	52.0	13	1	US-10-257-017B-103674
18	9	45.0	11	1	US-10-401-403-39
19	9	45.0	11	1	US-10-450-797-1152
20	3.6	18.0	20	1	US-10-728-399-1
21	3.6	18.0	20	1	US-10-728-399-3
22	3.6	18.0	20	1	US-10-728-399-4
23	3.6	18.0	20	1	US-10-728-399-2
24	3.6	18.0	20	1	US-10-728-399-10
25	3.6	18.0	20	1	US-10-728-399-7
26	3.6	18.0	20	1	US-10-728-399-18
27	3.4	17.0	11	1	US-10-450-797-1152
28	3.4	17.0	17	1	US-09-866-108-9344
29	3.4	17.0	17	1	US-09-866-108-9345
30	3.4	17.0	17	1	US-09-866-108-9346
31	3.4	17.0	17	1	US-10-723-361-9344
32	3.4	17.0	17	1	US-10-723-361-9345
33	3.4	17.0	17	1	US-10-723-361-9346

C 34 3.4 17.0 20 1 US-10-728-399-7 Sequence 7, Appli
C 35 3.4 17.0 20 1 US-10-728-399-5 Sequence 5, Appli
C 36 2.4 12.0 13 1 US-10-257-017B-103673 Sequence 103673,
C 37 2.4 12.0 13 1 US-10-257-017B-103674 Sequence 103674,
C 38 2 10.0 11 1 US-10-401-403-39 Sequence 39, Appli

ALIGNMENTS

RESULT 1
US-10-728-399-1
; Sequence 1, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitochondria antisense
US-10-728-399-1

Query Match 100.0%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGTCCTTCGTT 20
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Db 1 TTGTCTCCAGTCCTTCGTT 20

RESULT 2
US-10-728-399-3
; Sequence 3, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitochondria antisense
US-10-728-399-3

Query Match 95.0%; Score 19; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 TGTCCTCCAGTCCTTCGTT 20
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Db 1 TGTCCTCCAGTCCTTCGTT 19

RESULT 3
US-10-728-399-4
; Sequence 4, Application US/10728399

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; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoNEET antisense
US-10-728-399-4

Query Match          95.0%; Score 19; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.4;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGTCTCTTCGT 19
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Db 2 TTGTCTCCAGTCTCTTCGT 20

RESULT 4
US-10-728-399-2
; Sequence 2, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoNEET antisense
US-10-728-399-2

Query Match          90.0%; Score 18; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGTT 20
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Db 1 GTCTCCAGTCTCTTCGTT 18

RESULT 5
US-10-728-399-10
; Sequence 10, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoNEET antisense
US-10-728-399-10

Query Match          90.0%; Score 18; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.9;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTTCGTT 20
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Db 1 GTCTCCAGTCTCTTCGTT 18

RESULT 6
US-10-728-399-7
; Sequence 7, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoNEET antisense
US-10-728-399-7

Query Match          85.0%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCTTCGTT 20
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Db 1 TCTCCAGTCTCTTCGTT 17

RESULT 7
US-10-728-399-18
; Sequence 18, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455 1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoNEET antisense
US-10-728-399-18

Query Match          85.0%; Score 17; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.5;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGTCTCTTC 17
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Db 4 TTGTCTCCAGTCTCTTC 20
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RESULT 8
US-10-728-399-5
; Sequence 5, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION
; FILE REFERENCE: 01455.1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitochondrial antisense
US-10-728-399-5

Query Match 80.0%; Score 16; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.2;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCGAGTCTCTTCGTT 20
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Db 1 CTCGAGTCTCTTCGTT 16

RESULT 9
US-10-728-399-24
; Sequence 24, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION
; FILE REFERENCE: 01455.1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitochondrial antisense
US-10-728-399-24

Query Match 80.0%; Score 16; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 4.2;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCAGTCTCTT 16
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Db 5 TTGTCCTCAGTCTCTT 20

RESULT 10
US-09-866-108-9344/c
; Sequence 9344, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark

; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9344
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-9344

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCTTCGTT 20
|||||
Db 17 TCCCGAGCTCTTCGTT 1

RESULT 11
US-09-866-108-9345/c
; Sequence 9345, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27

; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-9345

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTCTCTCGT 19
||| ||||| |||||
Db 17 GTCCCCAGCCTCTCTCGT 1

RESULT 12
US-09-866-108-9346/c
; Sequence 9346, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA

; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-9346

Query Match 69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGCTCCAGTCTCTTCG 18
||| ||||| |||||
Db 17 TGTCCTCCAGCCTCTTCG 1

RESULT 13
US-10-723-361-9344/c
; Sequence 9344, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART ANI
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10/723,361
; CURRENT FILING DATE: 2003-11-26
; PRIOR FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9344
; LENGTH: 17
; TYPE: DNA

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; ORGANISM: Homo sapiens
US-10-723-361-9344

Query Match      69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy  4 TCTCCAGTCTCTTCGTT 20
    ||| ||| ||| ||| |||
Db  17 TCCCCAGCCTCTTCGTT 1

RESULT 14
US-10-723-361-9345/c
; Sequence 9345, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN
; FILE REFERENCE: PH0105
; CURRENT APPLICATION NUMBER: US/10723.361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-361-9345

Query Match      69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy  3 GTCTCCAGTCTCTTCGT 19
    ||| ||| ||| ||| |||
Db  17 GTCCCCAGCCTCTTCGT 1

RESULT 15
US-10-723-361-9346/c
; Sequence 9346, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
```

```
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN
; FILE REFERENCE: PH0105
; CURRENT APPLICATION NUMBER: US/10723.361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-361-9346

Query Match      69.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 7.6;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy  2 TGTCCTCCAGTCTCTTCG 18
    ||| ||| ||| ||| |||
Db  17 TGTCCCCAGCCTCTTCG 1

RESULT 16
US-10-257-017B-103673/c
; Sequence 103673, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 103673
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0025934
US-10-257-017B-103673

Query Match      52.0%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 18;
```

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCT 15
|||||

Db 13 TCTCCCGTCTCT 2

RESULT 17

US-10-257-017B-103674
; Sequence 103674, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms (SNPs) and cytosine
; TITLE OF INVENTION: methylation
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR APPLICATION NUMBER: DE 10019173.8
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 103674
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0025934
US-10-257-017B-103674

Query Match 52.0%; Score 10.4; DB 1; Length 13;

Best Local Similarity 91.7%; Pred. No. 18;

Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 4 TCTCCAGTCTCT 15
|||||

Db 1 TCTCCCGTCTCT 12

RESULT 18

US-10-401-403-39/c
; Sequence 39, Application US/10401403
; Publication No. US20040005599A1
; GENERAL INFORMATION:
; APPLICANT: Schoenbrunner, Nancy
; APPLICANT: Myers, Thomas
; APPLICANT: Gelfand, David
; TITLE OF INVENTION: THERMOSTABLE OR THERMOACTIVE DNA POLYMERASE MOLECULES
; TITLE OF INVENTION: WITH ATTENUATED 3'-5' EXONUCLEASE ACTIVITY
; FILE REFERENCE: 21314-US1
; CURRENT APPLICATION NUMBER: US/10/401,403
; CURRENT FILING DATE: 2003-03-26
; PRIOR APPLICATION NUMBER: US 60/369,815
; PRIOR FILING DATE: 2002-04-02
; NUMBER OF SEQ ID NOS: 203
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 39
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-401-403-39

Query Match 45.0%; Score 9; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 26;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 11 TCTCTTCGT 19
|||||

Db 11 TCTCTTCGT 3

RESULT 21

US-10-728-399-3/c
; Sequence 3, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION
; FILE REFERENCE: 01455_1

Qy 3 GTCTCCAGTC 12
|||||

Db 12 GACTGGAGAC 3

Query Match 18.0%; Score 3.6; DB 1; Length 20;

Best Local Similarity 60.0%; Pred. No. 27;

Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

RESULT 19

US-10-450-797-1152/c
; Sequence 1152, Application US/10450797
; Publication No. US2004014235A1
; GENERAL INFORMATION:
; APPLICANT: Petersohn, Dirk
; APPLICANT: Conradt, Marcus
; APPLICANT: Hofmann, Kay
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
; FILE REFERENCE: HENK-0041
; CURRENT APPLICATION NUMBER: US/10/450,797
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: PCT/EP01/15178
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: DE 101 00 121.5
; PRIOR FILING DATE: 2001-01-03
; NUMBER OF SEQ ID NOS: 1435
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1152
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-450-797-1152

Query Match 45.0%; Score 9; DB 1; Length 11;

Best Local Similarity 100.0%; Pred. No. 26;

Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 9 AGTCTCTTC 17
|||||

Db 10 AGTCTCTTC 2

RESULT 20

US-10-728-399-1/c
; Sequence 1, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitochondrial antisense
US-10-728-399-1

Query Match 18.0%; Score 3.6; DB 1; Length 20;

Best Local Similarity 60.0%; Pred. No. 27;

Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12
|||||

Db 12 GACTGGAGAC 3

```
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-3

Query Match      18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
      |||||
Db      11 GACTGGAGAC 2

RESULT 22
US-10-728-399-4/c
; Sequence 4, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF mitONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-4

Query Match      18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
      |||||
Db      13 GACTGGAGAC 4

RESULT 23
US-10-728-399-2/c
; Sequence 2, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF mitONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-2

Query Match      18.0%; Score 3.6; DB 1; Length 20;
```

```
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
      |||||
Db      10 GACTGGAGAC 1

RESULT 24
US-10-728-399-10/c
; Sequence 10, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; TITLE OF INVENTION: ANTISENSE MODULATION OF mitONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-10

Query Match      18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
      |||||
Db      14 GACTGGAGAC 5

RESULT 25
US-10-728-399-18/c
; Sequence 18, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; TITLE OF INVENTION: ANTISENSE MODULATION OF mitONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 18
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-18

Query Match      18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy      3 GTCTCCAGTC 12
      |||||
Db      15 GACTGGAGAC 6

RESULT 26
US-10-728-399-24/c
; Sequence 24, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitoneet antisense
US-10-728-399-24

```

```

Query Match      18.0%; Score 3.6; DB 1; Length 20;
Best Local Similarity 60.0%; Pred. No. 27;
Matches 6; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

```

Qy      3 GTCTCCAGTC 12
        |||||
Db      16 GACTGGAGAC 7

```

```

RESULT 27
US-10-450-797-1152
; Sequence 1152, Application US/10450797
; Publication No. US20040142335A1
; GENERAL INFORMATION:
; APPLICANT: Petersohn, Dick
; APPLICANT: Hofmann, Kay
; TITLE OF INVENTION: METHOD FOR DETERMINING SKIN STRESS OR SKIN AGEING IN VITRO
; FILE REFERENCE: HENK-0041
; CURRENT APPLICATION NUMBER: US/10/450,797
; CURRENT FILING DATE: 2003-12-04
; PRIOR APPLICATION NUMBER: PCT/EP01/15178
; PRIOR FILING DATE: 2001-12-20
; PRIOR APPLICATION NUMBER: DE 101 00 121.5
; PRIOR FILING DATE: 2001-01-03
; NUMBER OF SEQ ID NOS: 1435
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 1152
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-450-797-1152

```

```

Query Match      17.0%; Score 3.4; DB 1; Length 11;
Best Local Similarity 80.0%; Pred. No. 51;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      9 AGTCT 13
        |||
Db      6 AGACT 10

```

```

RESULT 28
US-09-866-108-9344
; Sequence 9344, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108

```

```

; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aeomica Sequence Listing Engine
; SEQ ID NO 9344
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-9344

```

```

Query Match      17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 33;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      9 AGTCT 13
        |||
Db      8 AGGCT 12

```

```

RESULT 29
US-09-866-108-9345
; Sequence 9345, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AEOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667

```


; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-9345

Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 33;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
|||
Db 7 AGGCT 11

RESULT 30
US-09-866-108-9346
; Sequence 9346, Application US/09866108
; Patent No. US20020048800A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: MYOSIN-LIKE GENE EXPRESSED IN HUMAN HEART AND MUSCLE
; FILE REFERENCE: AECOMICA-7
; CURRENT APPLICATION NUMBER: US/09/866,108
; CURRENT FILING DATE: 2001-05-25
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663

; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 60/266,860
; PRIOR FILING DATE: 2001-02-05
; NUMBER OF SEQ ID NOS: 15752
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-866-108-9346

Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 33;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
|||
Db 6 AGGCT 10

RESULT 31
US-10-723-361-9344
; Sequence 9344, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharon G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10/723,361
; CURRENT FILING DATE: 2003-11-26
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 9344
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-361-9344

Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 33;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
|||
Db 8 AGGCT 12

RESULT 32

US-10-723-361-9345
; Sequence 9345, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.
; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10/723,361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 9345
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-361-9345

Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 33;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
|||
Db 7 AGGCT 11

RESULT 33

US-10-723-361-9346
; Sequence 9346, Application US/10723361
; Publication No. US20040137589A1
; GENERAL INFORMATION:
; APPLICANT: GU, Yizhong
; APPLICANT: JI, Yonggang
; APPLICANT: PENN, Sharron G.
; APPLICANT: HANZEL, David K.
; APPLICANT: RANK, David R.

; APPLICANT: CHEN, Wensheng
; APPLICANT: SHANNON, Mark
; TITLE OF INVENTION: HUMAN MYOSIN-LIKE POLYPEPTIDE EXPRESSED PREDOMINANTLY IN HEART AN
; FILE REFERENCE: PB0105
; CURRENT APPLICATION NUMBER: US/10/723,361
; CURRENT FILING DATE: 2003-11-26
; PRIOR APPLICATION NUMBER: US 09/866,108
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: US 60/207,456
; PRIOR FILING DATE: 2000-05-26
; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 15755
; SOFTWARE: Aecomica Sequence Listing Engine
; SEQ ID NO 9346
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-723-361-9346

Query Match 17.0%; Score 3.4; DB 1; Length 17;
Best Local Similarity 80.0%; Pred. No. 33;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
|||
Db 6 AGGCT 10

RESULT 34
US-10-728-399-7/c
; Sequence 7, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Colca, Jerry
; APPLICANT: Pharmacia Corp.
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITONEET EXPRESSION
; FILE REFERENCE: 01455_1
; CURRENT APPLICATION NUMBER: US/10/728,399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitONEET antisense
US-10-728-399-7

Query Match 17.0%; Score 3.4; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 28;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
|||
Db 10 AGACT 6

```
RESULT 35
US-10-728-399-5/c
; Sequence 5, Application US/10728399
; Publication No. US20040132078A1
; GENERAL INFORMATION:
; APPLICANT: Pharmacia Corp.
; APPLICANT: Colca, Jerry
; TITLE OF INVENTION: ANTISENSE MODULATION OF MITOCHONDRIAL EXPRESSION
; FILE REFERENCE: 01455.1
; CURRENT APPLICATION NUMBER: US/10/728.399
; CURRENT FILING DATE: 2003-12-05
; NUMBER OF SEQ ID NOS: 627
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: human mitochondrial antisense
US-10-728-399-5

Query Match      17.0%; Score 3.4; DB 1; Length 20;
Best Local Similarity 80.0%; Pred. No. 28;
Matches 4; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTCT 13
Db 9 AGACT 5

RESULT 36
US-10-257-017B-103673
; Sequence 103673, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 103673
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0025934
US-10-257-017B-103673

Query Match      12.0%; Score 2.4; DB 1; Length 13;
Best Local Similarity 75.0%; Pred. No. 46;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 4 AGAC 7

RESULT 37
US-10-257-017B-103674/c
; Sequence 103674, Application US/10257017B
; Publication No. US20040241651A1
; GENERAL INFORMATION:
; APPLICANT: Alexander Olek
; APPLICANT: Christian Piepenbrock
; APPLICANT: Kurt Berlin
; TITLE OF INVENTION: Detection of single nucleotide polymorphisms [SNPs] and cytosine
```

```
; TITLE OF INVENTION: methylations
; FILE REFERENCE: E01/1193/WO
; CURRENT APPLICATION NUMBER: US/10/257,017B
; CURRENT FILING DATE: 2002-10-07
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 382046
; SEQ ID NO 103674
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Oligonucleotide for detection of SNP TSC0025934
US-10-257-017B-103674

Query Match      12.0%; Score 2.4; DB 1; Length 13;
Best Local Similarity 75.0%; Pred. No. 46;
Matches 3; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 9 AGTC 12
Db 10 AGAC 7

RESULT 38
US-10-401-403-39
; Sequence 39, Application US/10401403
; Publication No. US20040005599A1
; GENERAL INFORMATION:
; APPLICANT: Schoenbrunner, Nancy
; APPLICANT: Myers, Thomas
; APPLICANT: Gelfand, David
; TITLE OF INVENTION: THERMOSTABLE OR THERMOACTIVE DNA POLYMERASE MOLECULES
; FILE REFERENCE: 21314-US1
; CURRENT APPLICATION NUMBER: US/10/401,403
; CURRENT FILING DATE: 2003-03-26
; PRIOR FILING DATE: 2002-04-02
; NUMBER OF SEQ ID NOS: 203
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 39
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Primer
US-10-401-403-39

Query Match      10.0%; Score 2; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 55;
Matches 2; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 17 CG 18
Db 1 CG 2

Search completed: April 23, 2006, 11:47:45
Job time : 0.001 secs
```

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: April 23, 2006, 11:49:35 ; Search time 0.001 Seconds
(without alignments)
3.040 Million cell updates/sec

Title: US-10-728-399-1

Perfect score: 20

Sequence: 1 ttgtctccagtcctcttcg 20

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 0.5

Searched: 4 seqs, 76 residues

Total number of hits satisfying chosen parameters: 8

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : rnpbn.subdb.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
C 1	18	90.0	19	1	US-11-101-244-1102924
C 2	18	90.0	19	1	US-11-083-784-1102924
C 3	17	85.0	19	1	US-11-101-244-1102943
C 4	17	85.0	19	1	US-11-083-784-1102943
5	3.6	18.0	19	1	US-11-101-244-1102924
6	3.6	18.0	19	1	US-11-083-784-1102924
7	3.6	18.0	19	1	US-11-101-244-1102943
8	3.6	18.0	19	1	US-11-083-784-1102943

ALIGNMENTS

RESULT 1

US-11-101-244-1102924/c

; Sequence 1102924, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 1102924

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-101-244-1102924

Query Match

Best Local Similarity 90.0%; Score 18; DB 1; Length 19;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGTCCTCTTCG 18

Db 18 TTGTCTCCAGTCCTCTTCG 1

RESULT 2

US-11-083-784-1102924/c

; Sequence 1102924, Application US/11083784

; Publication No. US20050245475A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/083,784

; CURRENT FILING DATE: 2005-03-18

; PRIOR APPLICATION NUMBER: US/10/714,333

; PRIOR FILING DATE: 2003-11-14

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911

; SOFTWARE: Proprietary

; SEQ ID NO 1102924

; LENGTH: 19

; TYPE: RNA

; ORGANISM: Homo sapiens

US-11-083-784-1102924

Query Match

Best Local Similarity 90.0%; Score 18; DB 1; Length 19;

Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCTCCAGTCCTCTTCG 18

Db 18 TTGTCTCCAGTCCTCTTCG 1

RESULT 3

US-11-101-244-1102943/c

; Sequence 1102943, Application US/11101244

; Publication No. US20050246794A1

; GENERAL INFORMATION:

; APPLICANT: Dharmacon, Inc.

; APPLICANT: Khvorova, Anastasia

; APPLICANT: Reynolds, Angela

; APPLICANT: Leake, Devin

; APPLICANT: Marshall, William

; APPLICANT: Scaringe, Stephen

; TITLE OF INVENTION: Functional and Hyperfunctional siRNA

; FILE REFERENCE: 13499US

; CURRENT APPLICATION NUMBER: US/11/101,244

; CURRENT FILING DATE: 2005-04-07

; PRIOR APPLICATION NUMBER: 60/502,050

; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14

; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102943
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1102943

Query Match 85.0%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCCAGTCTCTTC 17
| | | | | | | | | | | | | | | | | | |
Db 17 TTGTCCTCCAGTCTCTTC 1

RESULT 4

US-11-083-784-1102943/c
; Sequence 1102943, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmakon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102943
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1102943

Query Match 85.0%; Score 17; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 1.3;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TTGTCCTCCAGTCTCTTC 17
| | | | | | | | | | | | | | | | | | |
Db 17 TTGTCCTCCAGTCTCTTC 1

RESULT 5

US-11-101-244-1102924
; Sequence 1102924, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmakon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137

; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102924
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1102924

Query Match 18.0%; Score 3.6; DB 1; Length 19;
Best Local Similarity 50.0%; Pred. No. 6.9;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12
| | | | | | | | | | | | |
Db 7 GACUGGAGAC 16

RESULT 6

US-11-083-784-1102924
; Sequence 1102924, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmakon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083,784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102924
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1102924

Query Match 18.0%; Score 3.6; DB 1; Length 19;
Best Local Similarity 50.0%; Pred. No. 6.9;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

Qy 3 GTCTCCAGTC 12
| | | | | | | | | | | | |
Db 7 GACUGGAGAC 16

RESULT 7

US-11-101-244-1102943
; Sequence 1102943, Application US/1101244
; Publication No. US20050246794A1
; GENERAL INFORMATION:
; APPLICANT: Dharmakon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/101,244
; CURRENT FILING DATE: 2005-04-07
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10

; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102943
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-101-244-1102943

Query Match 18.0%; Score 3.6; DB 1; Length 19;
Best Local Similarity 50.0%; Pred. No. 6.9;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
Qy 3 GTCTCCAGTC 12
| | | | |
Db 6 GACUGGAGAC 15

RESULT 8
US-11-083-784-1102943
; Sequence 1102943, Application US/11083784
; Publication No. US20050245475A1
; GENERAL INFORMATION:
; APPLICANT: Dharmacon, Inc.
; APPLICANT: Khvorova, Anastasia
; APPLICANT: Reynolds, Angela
; APPLICANT: Leake, Devin
; APPLICANT: Marshall, William
; APPLICANT: Scaringe, Stephen
; TITLE OF INVENTION: Functional and Hyperfunctional siRNA
; FILE REFERENCE: 13499US
; CURRENT APPLICATION NUMBER: US/11/083.784
; CURRENT FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US/10/714,333
; PRIOR FILING DATE: 2003-11-14
; PRIOR APPLICATION NUMBER: 60/502,050
; PRIOR FILING DATE: 2003-09-10
; PRIOR APPLICATION NUMBER: 60/426,137
; PRIOR FILING DATE: 2002-11-14
; NUMBER OF SEQ ID NOS: 1591911
; SOFTWARE: Proprietary
; SEQ ID NO 1102943
; LENGTH: 19
; TYPE: RNA
; ORGANISM: Homo sapiens
US-11-083-784-1102943

Query Match 18.0%; Score 3.6; DB 1; Length 19;
Best Local Similarity 50.0%; Pred. No. 6.9;
Matches 5; Conservative 1; Mismatches 4; Indels 0; Gaps 0;
Qy 3 GTCTCCAGTC 12
| | | | |
Db 6 GACUGGAGAC 15

Search completed: April 23, 2006, 11:49:35
Job time : 0.001 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: April 23, 2006, 11:51:51 ; Search time 0.001 Seconds
(without alignments)
0.680 Million cell updates/sec

Title: US-10-728-399-1

Perfect score: 20
Sequence: 1 ttgtctccagtctcttcgtt 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 0.5

Searched: 2 segs, 17 residues

Total number of hits satisfying chosen parameters: 4

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : rst.subdb.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
c 1	9	45.0	9	1	CF313414
2	6.4	32.0	8	1	CF933313
3	3.4	17.0	9	1	CF313414
c 4	2.4	12.0	8	1	CF933313

ALIGNMENTS

RESULT 1
CF313414/c
LOCUS
DEFINITION HD--01-I15.b1 OeHDA1-overexpressing transgenic rice plasmid cDNA library (HD) Oryza sativa (japonica cultivar-group) cDNA clone
HD--01-I15, mRNA sequence.
ACCESSION CF313414
VERSION CF313414.1 GI:33685175
KEYWORDS EST.
SOURCE Oryza sativa (japonica cultivar-group)
ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzaceae; Oryza.
REFERENCE 1 (bases 1 to 9)
AUTHORS Kim, J.S., Jun, K.M., Cheong, P.J., Kim, M.J., Lee, T.H., Shin, Y.C., Song, S.I., Kim, J.K., Kim, Y.-K. and Nahm, B.H.
TITLE Large-scale Sequencing Analysis of Rice ESTs
JOURNAL Unpublished (2003)
COMMENT Contact: Nahm B.H.
Genomics and Genetics Institute, GreenGene Biotech Inc.; Division of Bioscience and Bioinformatics, Myongji University
Yongin, Kyeonggi, Korea
Tel: 82 31 330 6193

Fax: 82 31 321 6355
Email: binahm@gbio.com, binahm@bio.myongji.ac.kr.
Location/Qualifiers
1. .9

FEATURES source

/organism="Oryza sativa (japonica cultivar-group)"
/mol_type="mRNA"
/cultivar="Nackdong"
/db_xref="taxon:39947"
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/tissue_type="callus"
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/lab_host="E.coli DH10B"
/clone_lib="OeHDA1-overexpressing transgenic rice plasmid cDNA library (HD)"
/note="vector: pCR4-TOPO; Site 1: EcoRI; Callus was treated with ABA(20um) for 1hr. Oligo-capped mRNA was reverse transcribed and then used for PCR. mRNA was derived from rice Histone Deacetylase overexpression line."

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 5 CTCCAGTCT 13

Db 9 CTCCAGTCT 1

RESULT 2

CV933313
LOCUS
DEFINITION Ppccm_0658 mating of 88069 (A1) and 618 (A2) Phytophthora infestans cDNA, mRNA sequence.
ACCESSION CV933313
VERSION CV933313.1 GI:58122928
KEYWORDS EST.
SOURCE Phytophthora infestans (potato late blight agent)
ORGANISM Eukaryota; stramenopiles; Oomycetes; Pythiales; Pythiaceae; Phytophthora.
REFERENCE 1 (bases 1 to 8)
AUTHORS Randall, T., Dwyer, R.A., Huitema, E., Beyer, K., Cvitanich, C., Kelkar, H., Fong, A.M., Gates, K., Roberts, S., Yatzkan, E., Gaffney, T., Law, M., Testa, A., Torto-Alalibo, A., Zhang, M., Zheng, L., Mueller, E., Windass, J., Binder, A., Birch, P.R.J., Gisi, U., Govers, F., Gow, N.A., Mauch, F., van West, P., Waugh, M.E., Yu, J., Bolter, T., Kamoun, S., Lam, S.T. and Judelson, H.S.

Large-scale gene discovery in the oomycete *Phytophthora infestans* reveals likely components of phytopathogenicity shared with true fungi
Mol. Plant-Microbe Interact. 18 (3), 229-243 (2005)
15782637
Contact: Judelson HS
Department of Plant Pathology
University of California
Webber Hall, Riverside, CA 92521, USA
Tel: 909 787 4199
Fax: 909 787 4294
Email: howard.judelson@ucr.edu.

Location/Qualifiers
1. .8

FEATURES source

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/db_xref="taxon:4787"
/sex="A1 and A2"
/clone_lib="mating of 88069 (A1) and 618 (A2)"
/note="vector: pSPORT1"

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Best Local Similarity 87.5%; Pred. No. 0;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db      1 TTGTCACC 8

RESULT 3
CF313414
LOCUS   HD--01-115.b1 OSHDAC1-overexpressing transgenic rice plasmid cDNA
DEFINITION
HD--01-115, mRNA sequence.
ACCESSION
CF313414
VERSION
CF313414.1 GI:33685175
KEYWORDS
SOURCE
ORGANISM
Oryza sativa (japonica cultivar-group)
Oryza sativa (japonica cultivar-group)
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
REFERENCE
1 (bases 1 to 9)
Kim,J.S., Jun,K.M., Cheong,P.J., Kim,M.J., Lee,T.H., Shin,Y.C.,
Song,S.I., Kim,Y.K., Kim,Y.-K. and Nahm,B.H.
Large-scale Sequencing Analysis of Rice ESTs
Unpublished (2003)
Contact: Nahm B.H.
Genomics and Genetics Institute, GreenGene Biotech Inc.; Division
of Bioscience and Bioinformatics, Myongji University
Yongin, Kyeonggi, Korea
Tel: 82 31 330 6193
Fax: 82 31 321 6355
Email: bhnahm@gbio.com, bhnahm@bio.myongji.ac.kr.

FEATURES
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      line."

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      Best Local Similarity 80.0%; Pred. No. 0;
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      ||||
Db      1 AGACT 5

RESULT 4
CV933313/c
LOCUS   CV933313
DEFINITION
Ppocm_0658 mating of 88069 (A1) and 618 (A2) Phytophthora infestans
cDNA, mRNA sequence.
ACCESSION
CV933313
VERSION
CV933313.1 GI:58122928
KEYWORDS
SOURCE
ORGANISM
Phytophthora infestans (potato late blight agent)
Phytophthora infestans
Eukaryota; stramenopiles; Oomycetes; Pythiales; Pythiaceae;
Phytophthora.
REFERENCE
1 (bases 1 to 8)
Randall,T., Dwyer,R.A., Huitema,E., Beyer,K., Cvitanich,C.,
Kelkar,H., Pong,A.M., Gates,K., Roberts,S., Yatzkan,E., Gaffney,T.,
Law,M., Testa,A., Torto-Alalibo,A., Zhang,M., Zheng,L., Mueller,E.,
Windass,J., Binder,A., Birch,P.R.J., Gisi,U., Govers,F., Gow,N.A.,
Mauch,F., van West,P., Waugh,M.E., Yu,J., Boller,T., Kamoun,S.,
Lam,S.T. and Judelson, H.S.
Large-scale gene discovery in the oomycete Phytophthora infestans
reveals likely components of phytopathogenicity shared with true
fungi
Mol. Plant-Microbe Interact. 18 (3), 229-243 (2005)
15782637
Contact: Judelson HS
Department of Plant Pathology
University of California
Webber Hall, Riverside, CA 92521, USA
Tel: 909 787 4199
Fax: 909 787 4294
Email: howard.judelson@ucr.edu.

      source
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QY      2 TGTC 5
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Db      6 TGAC 3

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Job time : 0.001 secs

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